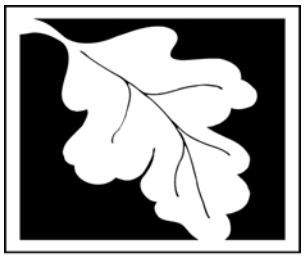
Massachusetts Department of Environmental Protection

Bureau of Waste Prevention

2005

Toxics Use Reporting Appendices



Developed in Collaboration with

Office of Technical Assistance for Toxics Use Reduction

Toxics Use Reduction Institute

Executive Office of Environmental Affairs

Standard Industrial Classification (SIC) Codes
Reportable Under the Massachusetts Toxics Use Reduction Act (4 - Digit)

Appendix A

SIC	SIC CODE DESCRIPTION
10	**Metal Mining**
1011	Iron ores
1021	Copper ores
1031	Lead and zinc ores
1041	Gold ores
1044	Silver ores
1061	Ferroalloy ores, except vanadium
1081	Metal mining services
1094	Uranium-radium-vanadium ores
1099	Metal Mining
12	**Coal Mining**
1221	Bituminous coal and lignite--surface
1222	Bituminous coal--underground
1231	Anthracite mining
1241	Coal mining services
13	**Oil and Extraction Gas**
1311	Crude petroleum and natural gas
1321	Natural gas liquids
1381	Drilling oil and gas wells
1382	Oil and gas exploration services
1389	Oil and gas field services, nec
14	**Non metallic Minerals, Except Fuels**
1411	Dimension stone
1422	Crushed and broken limestone
1423	Crushed and broken granite
1429	Crushed and broken stone, nec
1442	Construction sand and gravel
1446	Industrial sand
1455	Kaolin and ball clay
1459	Clay and related minerals, nec
1474	Potash, soda, and borate minerals
1475	Phosphate rock
1479	Chemical and fertilizer mining, nec
1481	Nonmetallic minerals services
1499	Miscellaneous nonmetallic minerals
20	**Food and Kindred Products**
2011	Meat packing plants
2013	Sausages and other prepared meats
2015	Poultry slaughtering and processing
2021	Creamery butter
2022	Cheese, natural and processed
2023	Dry, condensed, evaporated products
2024	Ice cream and frozen desserts
2026	Fluid milk
2032	Canned specialties
2033	Canned fruits and vegetables
2034	Dehydrated fruits, vegetables, soups
2035	Pickles, sauces, and salad dressings
2037	Frozen fruits and vegetables
2038	Frozen specialties, nec
2041	Flour and other grain mill products
2043	Cereal breakfast foods
2044	Rice milling
2045	Prepared flour mixes and doughs
2046	Wet corn milling
2047	Dog and cat food
2048	Prepared feeds, nec
2051	Bread, cake, and related products
2052	Cookies and crackers
2053	Frozen bakery products, except bread
2061	Raw cane sugar
2062	Cane sugar refining
2063	Beet sugar
2064	Candy & other confectionery products
2066	Chocolate & cocoa products
2067	Chewing gum

2068 Salted & roasted nuts & seeds
2074 Cottonseed oil mills
2075 Soybean oil mills
2076 Vegetable oil mills, nec
2077 Animal and marine fats and oils
2079 Edible fats and oils, nec
2082 Malt beverages
2083 Malt
2084 Wines, brandy, and brandy spirits
2085 Distilled and blended liquors
2086 Bottled and canned soft drinks
2087 Flavoring extracts and syrups, nec
2091 Canned and cured fish and seafoods
2092 Fresh or frozen prepared fish
2095 Roasted coffee
2096 Potato chips and similar snacks
2097 Manufactured ice
2098 Macaroni and spaghetti
2099 Food preparations, nec

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21 Tobacco Products

2111 Cigarettes
2121 Cigars
2131 Chewing and smoking tobacco
2141 Tobacco stemming and redrying

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22 Textile Mill Products

2211 Broadwoven fabric mills, cotton
2221 Broadwoven fabric mills, manmade
2231 Broadwoven fabric mills, wool
2241 Narrow fabric mills
2251 Women's hosiery, except socks
2252 Hosiery, nec
2253 Knit outerwear mills
2254 Knit underwear mills
2257 Weft knit fabric mills
2258 Lace and warp knit fabric mills
2259 Knitting mills, nec
2261 Finishing plants, cotton
2262 Finishing plants, manmade
2269 Finishing plants, nec
2273 Carpets and rugs
2281 Yarn spinning mills
2282 Throwing and winding mills
2284 Thread mills
2295 Coated fabrics, not rubberized
2296 Tire cord and fabrics
2297 Nonwoven fabrics
2298 Cordage and twine
2299 Textile goods, nec

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23 Apparel and Other Textile Products

2311 Men's & boys' suits & coats
2321 Men's & boys' shirts
2322 Men's & boys' underwear & nightwear
2323 Men's & boys' neckwear
2325 Men's & boys' trousers & slacks
2326 Men's & boys' work clothing
2329 Men's & boys' clothing, nec
2331 Women's & misses' blouses & shirts
2335 Women's, & misses' dresses
2337 Women's & misses' suits and coats
2339 Women's & misses' outerwear, nec
2341 Women's and children's underwear
2342 Bras, girdles, and allied garments
2353 Hats, caps, and millinery
2361 Girls' & children's dresses, blouses
2369 Girls' & children's outerwear, nec
2371 Fur goods
2381 Fabric dress and work gloves
2384 Robes and dressing gowns
2385 Waterproof outerwear
2386 Leather and sheep-lined clothing
2387 Apparel belts
2389 Apparel and accessories, nec
2391 Curtains and draperies
2392 Housefurnishings, nec
2393 Textile bags

2394 Canvas and related products
2395 Pleating and stitching
2396 Automotive and apparel trimmings
2397 Schiffli machine embroideries
2399 Fabricated textile products, nec

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24 Lumber and Wood Products
2411 Logging
2421 Sawmills & planing mills, general
2426 Hardwood dimension & flooring mills
2429 Special product sawmills, nec
2431 Millwork
2434 Wood kitchen cabinets
2435 Hardwood veneer and plywood
2436 Softwood veneer and plywood
2439 Structural wood members, nec
2441 Nailed wood boxes and shook
2448 Wood pallets and skids
2449 Wood containers, nec
2451 Mobile homes
2452 Prefabricated wood buildings
2491 Wood preserving
2493 Reconstituted wood products
2499 Wood products, nec

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25 Furniture and Fixtures
2511 Wood household furniture
2512 Upholstered household furniture
2514 Metal household furniture
2515 Mattresses and bedsprings
2517 Wood TV and radio cabinets
2519 Household furniture, nec
2521 Wood office furniture
2522 Office furniture, except wood
2531 Public building & related furniture
2541 Wood partitions and fixtures
2542 Partitions and fixtures, except wood
2591 Drapery hardware, blinds and shades
2599 Furniture and fixtures, nec

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26 Paper and Allied Products
2611 Pulp mills
2621 Paper mills
2631 Paperboard mills
2652 Setup paperboard boxes
2653 Corrugated & solid fiber boxes
2655 Fiber cans, drums & similar products
2656 Sanitary food containers
2657 Folding paperboard boxes
2671 Paper coated & laminated, packaging
2672 Paper coated & laminated, nec
2673 Bags: plastics, laminated, & coated
2674 Bags: uncoated paper & multiwall
2675 Die-cut paper & board
2676 Sanitary paper products
2677 Envelopes
2678 Stationery products
2679 Converted paper products, nec

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27 Printing and Publishing
2711 Newspapers
2721 Periodicals
2731 Book publishing
2732 Book printing
2741 Miscellaneous publishing
2752 Commercial printing, lithographic
2754 Commercial printing, gravure
2759 Commercial printing, nec
2761 Manifold business forms
2771 Greeting cards
2782 Blankbooks and looseleaf binders
2789 Bookbinding and related work
2791 Typesetting
2796 Platemaking services

Standard Industrial Classification (SIC) Codes
Reportable Under the Massachusetts Toxics Use Reduction Act (4 - Digit)

28 Chemicals and Allied Products

2812 Alkalies and chlorine
2813 Industrial gases
2816 Inorganic pigments
2819 Industrial inorganic chemicals, nec
2821 Plastics materials and resins
2822 Synthetic rubber
2823 Cellulosic manmade fibers
2824 Organic fibers, noncellulosic
2833 Medicinals and botanicals
2834 Pharmaceutical preparations
2835 Diagnostic substances
2836 Biological products exc. diagnostic
2841 Soap and other detergents
2842 Polishes and sanitation goods
2843 Surface active agents
2844 Toilet preparations
2851 Paints and allied products
2861 Gum and wood chemicals
2865 Cyclic crudes and intermediates
2869 Industrial organic chemicals, nec
2873 Nitrogenous fertilizers
2874 Phosphatic fertilizers
2875 Fertilizers, mixing only
2879 Agricultural chemicals, nec
2891 Adhesives and sealants
2892 Explosives
2893 Printing ink
2895 Carbon black
2899 Chemical preparations, nec

29 Petroleum and Coal Products

2911 Petroleum refining
2951 Asphalt paving mixtures and blocks
2952 Asphalt felts and coatings
2992 Lubricating oils and greases
2999 Petroleum and coal products, nec

30 Rubber and Misc. Plastics Products

3011 Tires and inner tubes
3021 Rubber and plastics footwear
3052 Rubber & plastics hose & belting
3053 Gaskets, packing & sealing devices
3061 Mechanical rubber goods
3069 Fabricated rubber products, nec
3081 Unsupported plastics film & sheet
3082 Unsupported plastics profile shapes
3083 Laminated plastics plate & sheet
3084 Plastics pipe
3085 Plastics bottles
3086 Plastics foam products
3087 Custom compound purchased resins
3088 Plastics plumbing fixtures
3089 Plastics products, nec

31 Leather and Leather Products

3111 Leather tanning and finishing
3131 Footwear cut stock
3142 House slippers
3143 Men's footwear, except athletic
3144 Women's footwear, except athletic
3149 Footwear, except rubber, nec
3151 Leather gloves and mittens
3161 Luggage
3171 Women's handbags and purses
3172 Personal leather goods, nec
3199 Leather goods, nec

32 Stone, Clay, and Glass Products

3211 Flat glass
3221 Glass containers
3229 Pressed and blown glass, nec
3231 Products of purchased glass
3241 Cement, hydraulic
3251 Brick and structural clay tile
3253 Ceramic wall and floor tile
3255 Clay refractories
3259 Structural clay products, nec

3261 Vitreous plumbing fixtures
3262 Vitreous china table & kitchenware
3263 Semivitreous table & kitchenware
3264 Porcelain electrical supplies
3269 Pottery products, nec
3271 Concrete block and brick
3272 Concrete products, nec
3273 Ready-mixed concrete
3274 Lime
3275 Gypsum products
3281 Cut stone and stone products
3291 Abrasive products
3292 Asbestos products
3295 Minerals, ground or treated
3296 Mineral wool
3297 Nonclay refractories
3299 Nonmetallic mineral products, nec

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33 Primary Metal Industries

3312 Blast furnaces and steel mills
3313 Electrometallurgical products
3315 Steel wire and related products
3316 Cold finishing of steel shapes
3317 Steel pipe and tubes
3321 Gray and ductile iron foundries
3322 Malleable iron foundries
3324 Steel investment foundries
3325 Steel foundries, nec
3331 Primary copper
3334 Primary aluminum
3339 Primary nonferrous metals, nec
3341 Secondary nonferrous metals
3351 Copper rolling & drawing
3353 Aluminum sheet, plate, and foil
3354 Aluminum extruded products
3355 Aluminum rolling & drawing, nec
3356 Nonferrous rolling & drawing, nec
3357 Nonferrous wiredrawing & insulating
3363 Aluminum die-castings
3364 Nonferrous die-casting exc. aluminum
3365 Aluminum foundries
3366 Copper foundries
3369 Nonferrous foundries, nec
3398 Metal heat treating
3399 Primary metal products, nec

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34 Fabricated Metal Products

3411 Metal cans
3412 Metal barrels, drums, and pails
3421 Cutlery
3423 Hand and edge tools, nec
3425 Saw blades and handsaws
3429 Hardware, nec
3431 Metal sanitary ware
3432 Plumbing fixture fittings and trim
3433 Heating equipment, except electric
3441 Fabricated structural metal
3442 Metal doors, sash, and trim
3443 Fabricated plate work (boiler shops)
3444 Sheet metalwork
3446 Architectural metal work
3448 Prefabricated metal buildings
3449 Miscellaneous metal work
3451 Screw machine products
3452 Bolts, nuts, rivets, and washers
3462 Iron and steel forgings
3463 Nonferrous forgings
3465 Automotive stampings
3466 Crowns and closures
3469 Metal stampings, nec
3471 Plating and polishing
3479 Metal coating and allied services
3482 Small arms ammunition
3483 Ammunition, exc. for small arms, nec
3484 Small arms
3489 Ordnance and accessories, nec
3491 Industrial valves
3492 Fluid power valves & hose fittings
3493 Steel springs, except wire

3494 Valves & pipe fittings, nec
3495 Wire springs
3496 Misc. fabricated wire products
3497 Metal foil & leaf
3498 Fabricated pipe & fittings
3499 Fabricated metal products, nec

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35 Industrial Machinery and Equipment

3511 Turbines and turbine generator sets
3519 Internal combustion engines, nec
3523 Farm machinery and equipment
3524 Lawn and garden equipment
3531 Construction machinery
3532 Mining machinery
3533 Oil and gas field machinery
3534 Elevators and moving stairways
3535 Conveyors and conveying equipment
3536 Hoists, cranes, and monorails
3537 Industrial trucks and tractors
3541 Machine tools, metal cutting types
3542 Machine tools, metal forming types
3543 Industrial patterns
3544 Special dies, tools, jigs & fixtures
3545 Machine tool accessories
3546 Power-driven handtools
3547 Rolling mill machinery
3548 Welding apparatus
3549 Metalworking machinery, nec
3552 Textile machinery
3553 Woodworking machinery
3554 Paper industries machinery
3555 Printing trades machinery
3556 Food products machinery
3559 Special industry machinery, nec
3561 Pumps and pumping equipment
3562 Ball and roller bearings
3563 Air and gas compressors
3564 Blowers and fans
3565 Packaging machinery
3566 Speed changers, drives, and gears
3567 Industrial furnaces and ovens
3568 Power transmission equipment, nec
3569 General industrial machinery, nec
3571 Electronic computers
3572 Computer storage devices
3575 Computer terminals
3577 Computer peripheral equipment, nec
3578 Calculating and accounting equipment
3579 Office machines, nec
3581 Automatic vending machines
3582 Commercial laundry equipment
3585 Refrigeration and heating equipment
3586 Measuring and dispensing pumps
3589 Service industry machinery, nec
3592 Carburetors, pistons, rings, valves
3593 Fluid power cylinders & actuators
3594 Fluid power pumps & motors
3596 Scales and balances, exc. laboratory
3599 Industrial machinery, nec

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36 Electronic & Other Electric Equipment

3612 Transformers, except electronic
3613 Switchgear and switchboard apparatus
3621 Motors and generators
3624 Carbon and graphite products
3625 Relays and industrial controls
3629 Electrical industrial apparatus, nec
3631 Household cooking equipment
3632 Household refrigerators and freezers
3633 Household laundry equipment
3634 Electric housewares and fans
3635 Household vacuum cleaners

3639 Household appliances, nec
3641 Electric lamps
3643 Current-carrying wiring devices
3644 Noncurrent-carrying wiring devices
3645 Residential lighting fixtures
3646 Commercial lighting fixtures
3647 Vehicular lighting equipment
3648 Lighting equipment, nec
3651 Household audio and video equipment
3652 Prerecorded records and tapes
3661 Telephone and telegraph apparatus
3663 Radio & TV communications equipment
3669 Communications equipment, nec
3671 Electron tubes
3672 Printed circuit boards
3674 Semiconductors and related devices
3675 Electronic capacitors
3676 Electronic resistors
3677 Electronic coils and transformers
3678 Electronic connectors
3679 Electronic components, nec
3691 Storage batteries
3692 Primary batteries, dry and wet
3694 Engine electrical equipment
3695 Magnetic and optical recording media
3699 Electrical equipment & supplies, nec

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37 Transportation Equipment

3711 Motor vehicles and car bodies
3713 Truck and bus bodies
3714 Motor vehicle parts and accessories
3715 Truck trailers
3716 Motor homes
3721 Aircraft
3724 Aircraft engines and engine parts
3728 Aircraft parts and equipment, nec
3731 Ship building and repairing
3732 Boat building and repairing
3743 Railroad equipment
3751 Motorcycles, bicycles, and parts
3761 Guided missiles and space vehicles
3764 Space propulsion units and parts
3769 Space vehicle equipment, nec
3792 Travel trailers and campers
3795 Tanks and tank components
3799 Transportation equipment, nec

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38 Instruments and Related Products

3812 Search and navigation equipment
3821 Laboratory apparatus and furniture
3822 Environmental controls
3823 Process control instruments
3824 Fluid meters and counting devices
3825 Instruments to measure electricity
3826 Analytical instruments
3827 Optical instruments and lenses
3829 Measuring & controlling devices, nec
3841 Surgical and medical instruments
3842 Surgical appliances and supplies
3843 Dental equipment and supplies
3844 X-ray apparatus and tubes
3845 Electromedical equipment
3851 Ophthalmic goods
3861 Photographic equipment and supplies
3873 Watches, clocks, watchcases & parts

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39 Miscellaneous Manufacturing Industries

3911 Jewelry, precious metal
3914 Silverware and plated ware
3915 Jewelers' materials & lapidary work
3931 Musical instruments

3942 Dolls and stuffed toys
3944 Games, toys, and children's vehicles
3949 Sporting and athletic goods, nec
3951 Pens and mechanical pencils
3952 Lead pencils and art goods
3953 Marking devices
3955 Carbon paper and inked ribbons
3961 Costume jewelry
3965 Fasteners, buttons, needles, & pins
3991 Brooms and brushes
3993 Signs and advertising specialities
3995 Burial caskets
3996 Hard surface floor coverings, nec
3999 Manufacturing industries, nec

40 Railroad Transportation
4011 Railroads, line-haul operating
4013 Switching and terminal services

44 Water Transportation
4412 Deep sea foreign trans. of freight
4424 Deep sea domestic trans. of freight
4432 Freight trans. on the Great Lakes
4449 Water transportation of freight, nec
4481 Deep sea passenger trans., ex. ferry
4482 Ferries
4489 Water passenger transportation, nec
4491 Marine cargo handling
4492 Towing and tugboat service
4493 Marinas
4499 Water transportation services, nec

45 Transportation By Air
4512 Air transportation, scheduled
4513 Air courier services
4522 Air transportation, nonscheduled
4581 Airports, flying fields, & services

46 Pipelines, Except Natural Gas
4612 Crude petroleum pipelines
4613 Refined petroleum pipelines
4619 Pipelines, nec

47 Transportation Services
4724 Travel agencies
4725 Tour operators
4729 Passenger transport arrangement, nec
4731 Freight transportation arrangement
4741 Rental of railroad cars
4783 Packing and crating
4785 Inspection & fixed facilities
4789 Transportation services, nec

48 Communication
4812 Radiotelephone communications
4813 Telephone communications, exc. radio
4822 Telegraph & other communications
4832 Radio broadcasting stations
4833 Television broadcasting stations
4841 Cable and other pay TV services
4899 Communication services, nec

49 Electric, Gas, and Sanitary Services
4911 Electric services
4922 Natural gas transmission
4923 Gas transmission and distribution
4924 Natural gas distribution
4925 Gas production and/or distribution
4931 Electric and other services combined
4932 Gas and other services combined

4939 Combination utilities, nec
4941 Water supply
4952 Sewerage systems
4953 Refuse systems
4959 Sanitary services, nec
4961 Steam and air-conditioning supply
4971 Irrigation systems

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50 Wholesale Trade--Durable Goods

5012 Automobiles and other motor vehicles
5013 Motor vehicle supplies and new parts
5014 Tires and tubes
5015 Motor vehicle parts, used
5021 Furniture
5023 Homefurnishings
5031 Lumber, plywood, and millwork
5032 Brick, stone, & related materials
5033 Roofing, siding, & insulation
5039 Construction materials, nec
5043 Photographic equipment and supplies
5044 Office equipment
5045 Computers, peripherals & software
5046 Commercial equipment, nec
5047 Medical and hospital equipment
5048 Ophthalmic goods
5049 Professional equipment, nec
5051 Metals service centers and offices
5052 Coal and other minerals and ores
5063 Electrical apparatus and equipment
5064 Electrical appliances, TV & radios
5065 Electronic parts and equipment
5072 Hardware
5074 Plumbing & hydronic heating supplies
5075 Warm air heating & air-conditioning
5078 Refrigeration equipment and supplies
5082 Construction and mining machinery
5083 Farm and garden machinery
5084 Industrial machinery and equipment
5085 Industrial supplies
5087 Service establishment equipment
5088 Transportation equipment & supplies
5091 Sporting & recreational goods
5092 Toys and hobby goods and supplies
5093 Scrap and waste materials
5094 Jewelry & precious stones
5099 Durable goods, nec

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51 Wholesale Trade--Nondurable Goods

5111 Printing and writing paper
5112 Stationery and office supplies
5113 Industrial & personal service paper
5122 Drugs, proprietaries, and sundries
5131 Piece goods & notions
5136 Men's and boys' clothing
5137 Women's and children's clothing
5139 Footwear
5141 Groceries, general line
5142 Packaged frozen foods
5143 Dairy products, exc. dried or canned
5144 Poultry and poultry products
5145 Confectionery
5146 Fish and seafoods
5147 Meats and meat products
5148 Fresh fruits and vegetables
5149 Groceries and related products, nec
5153 Grain and field beans
5154 Livestock
5159 Farm-product raw materials, nec
5162 Plastics materials & basic shapes

5169 Chemicals & allied products, nec
5171 Petroleum bulk stations & terminals
5172 Petroleum products, nec
5181 Beer and ale
5182 Wine and distilled beverages
5191 Farm supplies
5192 Books, periodicals, & newspapers
5193 Flowers & florists' supplies
5194 Tobacco and tobacco products
5198 Paints, varnishes, and supplies
5199 Nondurable goods, nec

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72 Personal Services

7211 Power laundries, family & commercial
7212 Garment pressing & cleaners' agents
7213 Linen supply
7215 Coin-operated laundries and cleaning
7216 Drycleaning plants, except rug
7217 Carpet and upholstery cleaning
7218 Industrial launderers
7219 Laundry and garment services, nec
7221 Photographic studios, portrait
7231 Beauty shops
7241 Barber shops
7251 Shoe repair and shoeshine parlors
7261 Funeral service and crematories
7291 Tax return preparation services
7299 Miscellaneous personal services, nec

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73 Business Services

7311 Advertising agencies
7312 Outdoor advertising services
7313 Radio, TV, publisher representatives
7319 Advertising, nec
7322 Adjustment & collection services
7323 Credit reporting services
7331 Direct mail advertising services
7334 Photocopying & duplicating services
7335 Commercial photography
7336 Commercial art and graphic design
7338 Secretarial & court reporting
7342 Disinfecting & pest control services
7349 Building maintenance services, nec
7352 Medical equipment rental
7353 Heavy construction equipment rental
7359 Equipment rental & leasing, nec
7361 Employment agencies
7363 Help supply services
7371 Computer programming services
7372 Prepackaged software
7373 Computer integrated systems design
7374 Data processing and preparation
7375 Information retrieval services
7376 Computer facilities management
7377 Computer rental & leasing
7378 Computer maintenance & repair
7379 Computer related services, nec
7381 Detective & armored car services
7382 Security systems services
7383 News syndicates
7384 Photofinishing laboratories
7389 Business services, nec

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75 Auto Repair, Services, and Parking

7513 Truck rental and leasing, no drivers
7514 Passenger car rental
7515 Passenger car leasing
7519 Utility trailer rental
7521 Automobile parking
7532 Top & body repair & paint shops
7533 Auto exhaust system repair shops
7534 Tire retreading and repair shops

7536	Automotive glass replacement shops
7537	Automotive transmission repair shops
7538	General automotive repair shops
7539	Automotive repair shops, nec
7542	Carwashes
7549	Automotive services, nec

76	**Miscellaneous Repair Services**
7622	Radio and television repair
7623	Refrigeration service and repair
7629	Electrical repair shops, nec
7631	Watch, clock, and jewelry repair
7641	Reupholstery and furniture repair
7692	Welding repair
7694	Armature rewinding shops
7699	Repair services, nec

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Downloaded from the US Department of the Treasury's WEB Page:

http://www.ustreas.gov/treasury/bureaus/sba/
siccodes.html

Only SIC Codes that are TURA Reportable are listed.

Appendix B

WHAT TOXIC SUBSTANCES ARE SUBJECT TO TURA REPORTING?

All of the substances listed under Section 313 of EPCRA, and all of the substances that are on the federal Superfund (CERCLA) list of chemicals are reportable under TURA, except for those chemicals that have been delisted by the Administrative Council on Toxics Use Reduction. The list of TURA chemicals subject to reporting for reports due July 1, 2005 is located at the end of this Appendix. (The column entitled "ADD" refers to the year in which the chemical was added to the TURA list.) They include:

- EPCRA 313 and CERCLA chemicals and chemical categories sorted by chemical name
- EPCRA 313 and CERCLA chemicals and chemical categories sorted by CAS number

The following chemicals have been delisted from TURA (but in certain cases are reportable under EPCRA):

Reporting Year/Chemical Delisted	Reason/Note
1994	
Barium Sulfate	EPCRA delisting and not CERCLA reportable
All copper phthalocyanine compounds that are substituted with only hydrogen and/or chlorine and/or bromine (delisted from the copper compounds category)	EPCRA delisting and not CERCLA reportable
High molecular weight glycol ethers	EPCRA delisting and not CERCLA reportable
1995	
Certain Metal Alloys (refer to **Appendix F**)	TURA Administrative Council delisting
Chromium (III) Oxide from chromium compounds category	TURA Administrative Council delisting
Ammonium Sulfate Solution (CAS#7783-20-2)	EPCRA delisting and not CERCLA reportable
Ammonium Nitrate Solution (CAS#6484-52-2)	EPCRA delisting and not CERCLA reportable
1996	
Hydroquinone (except for the manufacture of the chemical)	TURA Administrative Council delisting
Acetic Acid at concentrations of 12% or less	TURA Administrative Council delisting
Di-(2-ethylhexyDadipate (DEHA) (CAS#103-23-1)	EPCRA delisting and not CERCLA reportable

1997	
Zinc Oxide from zinc compounds category	TURA Administrative Council delisting
Radionuclides	TURA Administrative Council delisting
2-bromo-2-nitropropane (Bronopol) (CAS#52-51-7)	EPCRA delisting and not CERCLA reportable
2, 6 dimethylphenol (CAS# 576-26-1)	EPCRA delisting and not CERCLA reportable
Carbamate waste category	CERCLA delisting and not EPCRA reportable
1998	
Silver-Copper Alloy	TURA Administrative Council delisting
1999	
Pure Copper and Pure Silver	TURA Administrative Council delisting
Caprolactum	CERCLA delisting and not EPCRA reportable
2000	
Zinc Stearate from zinc compounds category	TURA Administrative Council delisting

1. Difference Between TRI and TURA Reporting of Hydrochloric Acid and Sulfuric Acid

- A qualifier was added to **hydrochloric acid (CAS No. 7647-01-0)** on the EPCRA list that relieves reporting for non-aerosol forms, effective reporting year 1996. A similar qualifier was added for **sulfuric acid (CAS No. 7664-93-9)** effective reporting year 1995. Reporting only is required for acid aerosols including mists, gas, vapors, fog, and other airborne forms of any particle size. **This qualifier is only applicable to EPCRA Form R submissions**.

- Since this chemical also is on the CERCLA list, **all forms (both aerosol and non-aerosol) are reportable under TURA**. A "State-Only" Form R must be submitted with the Form S for these acids**,** as well as the Form R submitted to EPA for only acid aerosols.

- For additional assistance on calculating and reporting sulfuric acid, please refer to the following EPA document: Sulfuric Acid: EPA-745-R-97-007 (11/97) Guidance for Reporting Sulfuric Acid (acid aerosols including mists, vapors, gas, fog and other forms of any particle size). This document is available from the EPA EPCRA Hotline 1-800-535-0202 and can be downloaded off the EPA TRI home page at http://www.epa.gov/tri/guide_docs/1998/sulfuric.pdf.

2. Rules For Reporting Certain Chemical Categories

Rules for Reporting Water Dissociable Nitrate Compounds Category

The 1996 EPA TRI guidance document, "List of Toxic Chemicals within the Water Dissociable Nitrate Compounds Category and Guidance for Reporting" (EPA 745-R-96-004), provides a detailed description of how to report this chemical category. The following general overview is from the guidance document:

"Chemicals within the nitrate compounds category are only reportable when in aqueous solution. All water dissociable nitrate compounds are included in the nitrate compounds category, including ammonium nitrate. Specifically listed section 313 chemicals *are not* included in threshold determinations for chemical categories such as the water dissociable nitrate compounds category. Specifically listed toxic chemicals are subject to their own individual threshold determinations. As of December 1, 1994, ammonium nitrate (solution) is not an individually listed chemical on the EPCRA section 313 list. However, ammonium nitrate is still subject to reporting under the nitrate compounds category. In addition, the aqueous ammonia from the dissociation of ammonium nitrate when in aqueous solution is subject to reporting under the ammonia listing."

The following is an example from the TRI guidance document:

✓Example

In a calendar year, a facility manufactures as byproducts, 20,000 pounds of sodium nitrate and 10,000 pounds of calcium nitrate, both in aqueous solutions, and releases these solutions to wastewater streams. The total quantity of nitrate compounds manufactured by the facility is the sum of the two chemicals, or 30,000 pounds, which exceeds the manufacturing threshold quantity of 25,000 pounds. The facility therefore is required to report for the nitrate compounds category.

There are three diisocyanates that are reported individually under EPCRA, and not as the diisocyanate chemical category:

- Toluene-2,4-diisocyanate (584-84-9)
- Toluene-2,6-diisocyanate (91-08-7)
- Toluene diisocyanate (mixed isomers) (26471-62-5)

Rules for Reporting Glycol Ethers

There are separate categories for glycol ethers defined under EPCRA and CERCLA.

(Please refer to the TRI guidance document, “List of Toxic Chemicals within the Glycol Ethers Category and Guidance for Reporting,” EPA 745-R-95-006.)

Reporting Guidance

EPCRA: Glycol Ethers are reportable as the glycol ethers category, N230. The specific chemical formula which defines the EPCRA glycol ethers category is as follows:

$$R - (OCH_2CH_2)_n - OR'$$

where

n	=	1, 2, or 3;
R	=	Alkyl C7 or less, or phenyl or alkyl substituted phenyl;
R'	=	H or alkyl C7 or less, or

OR' consisting of a carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate.

Reporting Guidance

CERCLA: Glycol Ethers are reportable under CERLA as defined by the following chemical formula:

Includes mono and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol $R-(OCH_2CH_2)_n-OR'$ where:

-n= 1, 2, or 3.

-R= alkyl or aryl groups.

-R'= R, H, or groups which, when removed, yield glycol ethers with the structure: $R-(OCH_2CH_2)_n-OH$. Polymers are excluded from the glycol category.

Any glycol ether that meets the CERCLA **definition only is reportable if it is specifically named on the TURA list.** If a glycol ether meets both the EPCRA and the CERCLA definitions, it is reportable under the EPCRA category (N230).

Rules For Reporting Specifically Listed Chemicals vs. Chemical Categories

Rules for Reporting the Use of Ammonia and Ammonium Hydroxide under TURA

To further clarify the reporting of ammonia and ammonium hydroxide under TURA, MassDEP recommends that reporting be consistent with EPCRA. Thus, there will not be a "state only" Form R required for ammonium hydroxide, and TURA filers should not file a Form S for ammonium hydroxide (CAS# 1336-21-6). Only one fee will be required to the state for the reporting of ammonia as ammonium hydroxide. MassDEP interprets ammonium hydroxide to be equivalent to aqueous ammonia (as does EPCRA), and 10% of aqueous ammonia (CAS# 7664-41-7) is reportable under TURA, effective reporting year 2000. Please refer to the EPCRA Section 313 Guidance for Reporting Aqueous Ammonia, Revised December 2000, EPA 745-R-00-005.

The following is quoted from #451, EPCRA Section 313 Questions and Answers, December 1998, EPA 745-B-98-004:

" . . . The chemical ammonium hydroxide (NH_4OH) is a misnomer. It is a common name used to describe a solution of ammonia in water (i.e., aqueous ammonia), typically a concentrated solution of 28 to 30 percent ammonia. EPA has consistently responded to questions regarding the reportability of these purported ammonium hydroxide solutions under the EPCRA Section 313 ammonia listing by stating that these are 28 to 30 percent solutions of ammonia in water and that the solutions are reportable under EPCRA Section 313 ammonia listing. For a more detailed discussion, see page 34175 of the Federal Register final rule of June 30, 1995 (60 FR 34172).

Facilities should use the percent total ammonia specified on the label of ammonium hydroxide solutions they purchase to determine the total ammonia content in these solutions. Ammonium hydroxide has the chemical formula NH_4OH; however, as mentioned above, strong evidence indicates that the species NH_4OH does not exist. Bottles of concentrated aqueous ammonia purchased from chemical supply companies are almost always labeled ammonium hydroxide. These solutions primarily consist of molecules of NH_3 dissolved in water (along with small amounts of ionized ammonia) . . . "

Please note that different chemical suppliers will reference the % of ammonia in different ways. Therefore, it is recommended that facilities contact their chemical suppliers to specify the amount of ammonia per gallon. This question could be specified in "percent by weight per gallon" or in "number of pounds per gallon" of solution, for example.

✓Examples

Example 1:

Facility otherwise uses 1,000,000 pounds of 30% solution by weight of ammonium hydroxide (30% ammonia by weight).

1,000,000 pounds x 0.30 = 300,000 pounds of ammonia

Only 10% of ammonia is reportable on Form R per EPA Guidance for Reporting Aqueous Ammonia

300,000 x 0.10 = 30,000 pounds of ammonia

This facility would complete one Form S and one Form R for 30,000 pounds of reportable ammonia (see EPCRA Guidance for Reporting Aqueous Ammonia).

✓Examples

Example 2:

54,231 gallons of aqueous ammonia (19.0%)

54,231 gallons x 8.34 pounds/gallon x 0.935 specific gravity

= 422,888 pounds aqueous ammonia x 19.0%

80,349 pounds ammonia x 10% reportable ammonia = 8,035 pounds ammonia

This facility does not meet TURA or TRI reporting thresholds.

The table below summarizes how to report chemicals that are specifically listed and/or listed as chemical categories. Descriptions of specific reporting requirements for each row follow the table.

Row No.	EPCRA Specific Chemical	EPCRA Category	CERCLA Specific Chemical	CERCLA Category	Report as:
1	yes	yes			EPCRA Specific Chemical
2	yes			yes	EPCRA Specific Chemical
3		yes	yes		EPCRA Category
4			yes	yes	CERCLA Specific Chemical
5		yes			EPCRA Category
6		yes		yes	EPCRA Category
7				yes	Do Not Report *

Rows 1 & 2:

If a specific chemical is named on EPCRA and it also is reportable under either an EPCRA or CERCLA listed category, it should be reported **only as a specific EPCRA chemical, not under the category.**

✓Example

Hydrogen Cyanide: EPCRA category (Cyanide Compounds), EPCRA specifically list
Report as: EPCRA specific chemical (Hydrogen Cyanide)

1,2,4 Trichlorobenzene: EPCRA specifically listed, CERCLA category (Chlorinated Benzenes)
Report as: EPCRA specific chemical (1,2,4 Trichlorobenzene)

Row 3:

When a specifically listed CERCLA chemical falls within an EPCRA listed category, it should be reported **only under the EPCRA chemical category and not under the specific chemical name.**

✓Example

Calcium Cyanide: EPCRA category (Cyanide Compounds), CERCLA specifically listed
Report as: EPCRA category (Cyanide Compounds)

Row 4:

When a specifically listed CERCLA chemical falls within a CERCLA listed category, it should be reported **only as the specific CERCLA chemical.**

✓Example

- Benzenesulfonyl Chloride: CERCLA specifically listed, CERCLA category (Chlorinated Benzenes)

Report as: CERCLA specific chemical (Benzenesulfonyl Chloride)

Row 5:

Chemicals falling under an EPCRA chemical category or categories which are not specifically listed under EPCRA or CERCLA, should be reported under the EPCRA chemical category or categories.

✓Example: Lead Chromate, Reporting Two Competing Compound Classes

If you are reporting lead chromate you need to report under the lead compounds and chromium compounds categories

- **Report the SAME weight for Lead Compounds and Chromium Compounds use (total weight of the compound) on EACH Form S.**

- For Byproduct tracking, report ONLY the weight of the reportable constituent for each category.

- In Optional Section 2 of each Form S,enter the weight of the chemical in d.

- Even though you will file 2 separate Form Ss for Lead Compounds and Chromium Compounds, you will **pay only ONE TURA fee for both chemicals**. (Example Form Ss are shown on the next page.)

Row 6:

Chemicals falling under an EPCRA chemical category and a CERCLA chemical category which are not specifically listed under EPCRA or CERCLA should be reported under the EPCRA chemical category.

Row 7:

Chemicals that only are listed as a CERCLA category are not reportable.

CERCLA Category only: phthalate esters, polynuclear aromatic hydrocarbons, polycyclic organic matter, glycol ethers, chlorinated phenols, etc. should NOT be reported unless they are specifically named.

✓ **Form S Example:**

Section 1: Facility-Wide Use of Listed Chemical

1026	Lead Compounds
a. CAS #	b. Chemical Name (Dioxin will be assumed to be grams, decimal points may be used)

Facility-wide use of chemical identified in a. Enter the total amount (in POUNDS, except for dioxin) for each applicable category. **NOTE:** 'Generated as byproduct' (item f.) generally means all waste containing the listed chemical before the waste is treated or recycled. Please refer to the reporting instructions before completing this section.

c. Manufactured	d. Processed
	650
e. Otherwise used	f. Generated as Byproduct
66,000	
g. Shipped in or as product	

Section 2: Optional Questions

When the amounts reported in c, d and e in Section 1 are added together, the sum will in many cases equal the sum of f and g. In other words, lines c,d and e will often form a "materials balance." If lines c,d and e are not in approximate balance, you may use this section to explain why. Indicate all the reasons that apply by entering the number of pounds on the appropriate line below (e.g., 4,000 Chemical was held in inventory).

a. Chemical was recycled on site	b. Chemical was consumed or transformed

	300; 33,000
c. Chemical was held in inventory	d. Chemical is a compound
e. Other (explain below)	

f. Did anything non-routine occur at your facility during the reporting year which affected the data reported? Yes ☐ No ☐ If yes, please explain.

Section 1: Facility-Wide Use of Listed Chemical

1012	Chromium Compounds
a. CAS #	b. Chemical Name (Dioxin will be assumed to be grams, decimal points may be used)

Facility-wide use of chemical identified in a. Enter the total amount (in POUNDS, except for dioxin) for each applicable category. **NOTE:** 'Generated as byproduct' (item f.) generally means all waste containing the listed chemical before the waste is treated or recycled. Please refer to the reporting instructions before completing this section.

c. Manufactured	d. Processed
	350
e. Otherwise used	f. Generated as Byproduct
33,000	
g. Shipped in or as product	

Section 2: Optional Questions

When the amounts reported in c, d and e in Section 1 are added together, the sum will in many cases equal the sum of f and g. In other words, lines c,d and e will often form a "materials balance." If lines c,d and e are not in approximate balance, you may use this section to explain why. Indicate all the reasons that apply by entering the number of pounds on the appropriate line below (e.g., 4,000 Chemical was held in inventory).

a. Chemical was recycled on site	b. Chemical was consumed or transformed
	See above
c. Chemical was held in inventory	d. Chemical is a compound
e. Other (explain below)	

f. Did anything non-routine occur at your facility during the reporting year which affected the data reported? Yes ☐ No ☐ If yes, please explain.

Summary of TURA Reportable Chemical Categories

TURA requires reporting on the chemical categories listed below. The individual chemicals included in each chemical category should always be reported in their parent chemical category (e.g., antimony compounds), and not as individual chemicals. Please note that this is not an exhaustive list of individual chemicals within the chemical categories.

Chemical Category	CAS No.	Chemical Name
Antimony Compounds Includes any unique chemical substance that contains antimony as part of the chemical's infrastructure. Includes, but is not limited to:	1309-64-4	Antimony Trioxide
	7647-18-9	Antimony Pentachloride
	7783-56-4	Antimony Trifluoride
	7789-61-9	Antimony Tribromide
	10025-91-9	Antimony Trichloride
	28300-74-5	Antimony Potassium Tartrate
Arsenic Componds Includes any unique chemical substance that contains arsenic as part of the chemical's infrastructure. Includes, but is not limited to:	692-42-2	Diethylarsine
	696-28-6	Dichlorophenylarsine
	1303-28-2	Arsenic Pentoxide
	1303-32-8	Arsenic Disulfide
	1303-33-9	Arsenic Trisulfide
	1327-52-2	Arsenic Acid
	1327-53-3	Arsenic Trioxide
	7631-89-2	Sodium Arsenate
	7645-25-2	Lead Arsenate
	7778-39-4	Arsenic Acid
	7778-44-1	Calcium Arsenate
	7784-34-1	Arsenous Trichloride
	7784-40-9	Lead Arsenate
	7784-41-0	Potassium Arsenate
	7784-46-5	Sodium Arsenite
	10102-48-4	Lead Arsenate
	10124-50-2	Potassium Arsenate
	52740-16-6	Calcium Arsenate
Barium Compounds Includes any unique chemical substance that contains barium as part of the chemical's infrastructure. Does not include barium sulfate, CAS # 7727-43-7. Includes, but is not limited to:	542-62-1	Barium Cyanide

Chemical Category	CAS No.	Chemical Name
Beryllium Compounds Includes any unique chemical substance that contains beryllium as part of the chemical's infrastructure. Includes, but is not limited to:	7787-47-5	Beryllium Chloride
	7787-49-7	Beryllium Fluoride
	7787-55-5	Beryllium Nitrate
	13597-99-4	Beryllium Nitrate

Chemical Category	CAS No.	Chemical Name
Cadmium Compounds Includes any unique chemical substance that contains cadmium as part of the chemical's infrastructure. Includes, but is not limited to:	543-90-8	Cadmium Acetate
	7789-42-6	Cadmium Bromide
	10108-64-2	Cadmium Chloride

Chlorophenols Please see EPA 2001 TRI reporting instructions. Includes, but is not limited to:	58-90-2	2,3,4,6-Tetrachlorophenol
	87-65-0	2,6 Dichlorophenol
	95-57-8	2-Chlorophenol
	609-19-8	3,4,5 Trichlorophenol
	933-75-5	2,3,6 Trichlorophenol
	933-78-8	2,3,5 Trichlorophenol
	5344-82-1	2-Chlorophenolthiourea
	7005-72-3	Chlorophenyl Phenyl Ether
	15950-66-0	2,3,4 trichlorophenol
	25167-82-2	Trichlorophenol

Chromium Compounds Includes any unique chemical substance that contains chromium as part of the chemical's infrastructure. Includes, but is not limited to:	1066-30-4	Chromic Acetate
	2146-10-8	Sodium Chromate
	2151-06-8	Strontium Chromate
	2151-16-3	Ammonium Bichromate
	7738-94-5	Chromic Acid
	7778-50-9	Potassium Bichromate
	7788-98-9	Ammonium chromate
	7789-00-6	Potassium Chromate
	10049-05-5	Chromous Chloride
	10588-01-9	Sodium Bichromate
	10101-53-8	Chromic Sulfate
	11115-74-5	Chromic Acid
	13765-19-0	Calcium chromate
	14307-35-8	Lithium Chromate

Chemical Category	CAS No.	Chemical Name
Cobalt Compounds Includes any unique chemical substance that contains cobalt as part of the chemical's infrastructure. Includes, but is not limited to:	544-18-3	Cobaltous Formate
	7789-43-7	Cobaltous Bromide
	14017-41-5	Cobaltous Sulfamate
Copper Compounds Includes any unique chemical substance that contains copper as part of the chemical's infrastructure. Does not include copper phthalocyanine compounds that are substituted with only hydrogen, and/or chlorine, and/or bromine. Includes, but is not limited to:	137-29-1	Copper, bis(dimethylcarbamodithioato-s-s)-
	544-92-3	Copper Cyanide
	815-82-7	Cupric Tartrate
	3251-23-8	Cupric Nitrate
	5893-66-3	Cupric Oxalate
	7447-39-4	Cupric Chloride
	7758-98-7	Cupric Sulfate
	10380-29-7	Cupric Sulfate, Ammoniated
Cyanide Compounds X^+CN^- where $X = H^+$ or any other group where a formal dissociation may occur. For example KCN or $CA(Cn)_2$. Includes, but is not limited to:	57-12-5	Cyanides
	143-33-9	Sodium Cyanide
	151-50-8	Potassium Cyanide
	460-19-5	Cyanogen
	506-61-6	Potassium Silver Cyanide
	506-64-9	Silver Cyanide
	506-68-3	Cynogen Bromide
	506-77-4	Cyanogen Chloride
	542-62-1	Barium Cyanide
	544-92-3	Copper Cyanide
	557-19-7	Nickel Cyanide
	557-21-1	Zinc Cyanide
	592-01-8	Calcium Cyanide
	592-04-1	Mercuric Cyanide
	592-85-8	Mercuric Thiocyanate
	592-87-0	Lead Thiocyanate
	1762-95-4	Ammonium Thiocyanate
Diisocyanates Includes only the chemicals listed here.	91-93-0	3,3'-Dimethoxybenzidine-4,4' di-isocyanate
	91-97-4	3-3'-Dimethyl-4,4'-diphenylene diisocyanate
	101-68-8	Methylenebis(phenylisocyanate)(MDI) (previously reportable under EPCRA)
	104-49-4	1,4 Phenylene diisocyanate
	123-61-5	1,3-Phenylene diisocyanate

	139-25-3	3-3' Dimethyl diphenylmethane-4-4' siisocyanate
	822-06-0	Hexamethylene 1,6 -diisocyanate
	2556-36-7	1,4 Cyclohexane diisocyanate
	3173-72-6	1,5 Naphthalene diisocyanate
	4098-71-9	Isophorone diisocyanate
	4128-73-8	4,4'-diisocyanatodiphenylether
	5124-30-1	1,1-Methylene bis(4-isocyanato-cyclohexane
	9016-87-9	Polmeric diphenylmethane diisocyanate
	10347-54-3	1,4-Bis(methylisocyonate)cyclohexane
	15646-96-5	2,4,4-Trimethylhexamethylene di-isocyanate
	16938-22-0	2,2,4-Trimethylhexamethylene diisocyanate
	38661-72-2	1,3-Bis(methylisocyanate)cyclo-hexane
	75790-84-0	4-Methyldiphenylmethane-3,4-diisocyanate
	75790-87-3	2,4'-Diisocyanatodiphenyl sulfide
	134190-37-7	Diethyldiisocyanatobenzene

Dioxin &Dioxin-Like Compounds Manufacturing; and the processing or otherwise use of dioxin or dioxin-like compounds if the dioxin and dioxin-like compounds are present as contaminants in a chemical and if they were created during the manufacture of that chemical. Includes only the chemicals listed here.	1746-01-6	2,3,7,8- Tetrachlorodibenzo-p-dioxin
	3268-87-92	1,2,3,4,6,7,8,9- Octachlorodibenzo-p-dioxin
	19408-74-3	1,2,3,7,8,9- Hexachlorodibenzo-p-dioxin
	35822-46-9	1,2,3,4,6,7,8- Heptachlorodibenzo-p-dioxin
	39001-02-0	1,2,3,4,6,7,8,9- Octachlorodibenzofuran
	39227-28-6	1,2,3,4,7,8-- Hexachlorodibenzo-p-dioxin
	40321-76-4	1,2,3,7,8-- Pentachlorodibenzo-p-dioxin
	51207-31-9	2,3,7,8- Tetrachlorodibenzofuran
	55673-89-7	1,2,3,4,7,8,9- Heptachlorodibenzofuran
	57117-31-4	2,3,4,7,8- Pentachlorodibenzofuran
	57117-41-6	1,2,3,7,8- Pentachlorodibenzofuran
	57117-44-9	1,2,3,6,7,8- Hexachlorodibenzofuran
	57653-85-7	1,2,3,6,7,8- Hexachlorodibenzo-p-dioxin
	60851-34-5	2,3,4,6,7,8- Hexachlorodibenzofuran
	67562-39-4	1,2,3,4,6,7,8- Heptachlorodibenzofuran
	70648-26-9	1,2,3,4,7,8- Hexachlorod-benzofuran
	72918-21-9	1,2,3,7,8,9- Hexachlorodibenzofuran

Ethylenebisdithiocarbamic acid, salts, esters Includes any unique chemical substance that contains an EBDC or an EBDC salt as part of that chemical's infrastructure. Includes, but is not limited to:	111-54-6	Ethylenebisdithiocarbamic acid, salts, esters

Chemical Category	CAS No.	Chemical Name
Certain Glycol Ethers Please see guidance on page B-3 of this document.		
Lead Compounds Includes any unique chemical substance that contains lead as part of the chemical's infrastructure. Includes, but is not limited to:	301-04-2	Lead Acetate
	592-87-0	Lead Thiocyanate
	1072-35-1	Lead Stearate
	1314-87-0	Lead Sulfide
	1335-32-6	Lead Subacetate
	7428-48-0	Lead Stearate
	7446-27-7	Lead Phophate
	7446-14-2	Lead Sulfate
	7645-25-2	Lead Arsenate
	7758-95-4	Lead Chloride
	7783-46-2	Lead Fluoride
	10099-74-8	Lead Nitrate
	10101-63-0	Lead Iodide
	10102-48-4	Lead Arsenate
	13814-96-5	Lead Fluoborate
	15739-80-7	Lead Sulfate
	52652-59-2	Lead Stearate
	56189-09-4	Lead Stearate
Manganese Compounds Includes any unique chemical substance that contains lead as part of the chemical's infrastructure. Includes, but is not limited to:	7722-64-7	Potassium Permanganate
	15339-36-3	Manganese, bis(dimethylcarbamodithiato-s-s)
Mercury Compounds Includes any unique chemical substance that contains mercury as part of the chemical's infrastructure. Includes, but is not limited to:	592-04-1	Mercuric Cyanide
	592-85-8	Mercuric Thiocyanate
	628-86-4	Mercury Fulminate
	7782-86-7	Mercurous Nitrate
	7783-35-9	Mercuric sulfate
	10415-75-5	Mercurous Nitrate
	10045-94-0	Mercuric Nitrate
Nickel Compounds Includes any unique chemical substance that contains nickel as part of the chemical's infrastructure. Includes, but is not limited to:	557-19-7	Nickel Cyanide
	7718-54-9	Nickel chloride
	7786-81-4	Nickel Sulfate
	12054-48-7	Nickel Hydroxide
	13463-39-3	Nickel Carbonyl
	14216-75-2	Nickel Nitrate
	15699-18-0	Nickel Ammonium Sulfate
	37211-05-5	Nickel chloride

Chemical Category	CAS No.	Chemical Name
Nicotine and Salts Includes any unique chemical substance that contains nicotine or a nicotine salt as part of the chemical's infrastructure. Includes, but is not limited to:	54-11-5	Nicotine
Nitrate Compounds (water dissociable) Includes, but is not limited to:	1004-54-0	Mercuric Nitrate
	7761-88-8	Silver Nitrate
	7779-88-6	Zinc Nitrate
	7782-86-7	Mercurous Nitrate
	7787-55-5	Beryllium Nitrate
	10099-74-8	Lead Nitrate
	10102-06-4	Uranyl nitrate
	10102-45-1	Thallium Nitrate
	10415-75-5	Mercurous Nitrate
	10421-48-4	Ferric Nitrate
	13597-99-4	Beryllium Nitrate
	13746-89-9	Zirconium Nitrate
	14216-75-2	Nickel Nitrate
	36478-76-9	Uranyl Nitrate
Polybrominated Biphenyls (PBBs) Please see EPA guidance.		
Polychlorinated alkanes Please see EPA guidance.		
Polycyclic Aromatic Compounds Includes only the chemicals listed here.	50-32-8	Benzo(a)pyrene
	53-70-3	Dibenzo(a,h)anthracene
	56-49-5	3-Methylcholanthrene
	56-55-3	Benz(a)anthracene
	57-97-6	7,12-Dimethylbenz(a)anthracene
	189-55-9	Benzo(r,s)pentaphene
	189-64-0	Benzo(a,h)pyrene
	191-30-0	Dibenzo(a,l)pyrene
	192-65-4	Dibenzo(a,e)pyrene
	193-39-5	Indeno[1,2,3-cd]pyrene
	194-59-2	7H-Dibenzo(c,g)carbazole
	205-99-2	Benzo(b)fluoranthene
	205-82-3	Benzo(j)fluoranthene
	206-44-0	Benzo(j.k)fluorene
	207-08-9	Benzo(k)fluoranthene
	218-01-9	Benzo(a)phenanthrene

	224-42-0	Dibenz(a,j)acridine
	226-36-8	Dibenz(a,h)acridine
	3697-24-3	5-Methylchrysene
	5385-75-1	Dibenzo(a,e)Fluoranthene
	5522-43-0	1-Nitropyrene

Selenium Compounds Includes any unique chemical substance that contains selenium as part of the chemical's infrastructure. Includes, but is not limited to:	144-34-3	Carbamodithioic Acid, dimethyl- ,Tetraanhydrosulfid with Orthothioselenious Acid
	630-10-4	Selenourea
	7446-08-4	Selenium Dioxide
	7488-56-4	Selenium sulfide
	7782-82-3	Sodium Selenite
	7783-00-8	Selenious Acid
	10102-18-8	Sodium Selenite
	12039-52-0	Selenious Acid, Dithallium (1+) Salt

Silver Compounds Includes any unique chemical substance that contains silver as part of the chemical's infrastructure. Includes, but is not limited to:	506-61-6	Potassium Silver Cyanide
	506-64-9	Silver Cyanide
	7761-88-8	Silver Nitrate

Strychnine and Salts Includes any unique chemical substance that contains strychnine or a strychnine salt as part of the chemical's infrastructure. Includes, but is not limited to:	57-24-9	Strychnine and Salts

Thallium compounds Includes any unique chemical substance that contains thallium as part of the chemical's infrastructure. Includes, but is not limited to:	563-68-8	Thallium Acetate
	1314-32-5	Thallic Oxide
	6533-73-9	Thallous Carbonate
	7446-18-6	Thallium sulfate
	7791-12-0	Thallium Chloride
	10031-59-1	Thallium sulfate
	10102-45-1	Thallium Nitrate
	12039-52-0	Selenious Acid, dithallium (1+0 Salt

Vanadium Compounds Includes any unique chemical substance that contains vanadium as part of the chemical's infrastructure. Includes, but is not limited to:	1314-62-1	Vanadium Pentoxide

Chemical Category	CAS No.	Chemical Name
Zinc Compounds Includes any unique chemical substance that contains zinc as part of the chemical's infrastructure. Includes, but is not limited to:	127-82-2	Zinc Phenolsulfonate
	137-30-4	Zinc, Bis(dimethylcarbomodithiato-S,S)-
	557-21-1	Zinc Cyanide
	557-34-6	Zinc Acetate
	557-41-5	Zinc Formate
	1314-84-7	Zinc Phosphide
	1332-07-6	Zinc Borate
	3486-35-9	Zinc Carbonate
	7646-85-7	Zinc Chloride
	7699-45-8	Zinc Bromide
	7720-78-7	Zinc Sulfate
	7779-86-4	Zinc Hydrosulfite
	7779-88-6	Zinc Nitrate
	7783-49-5	Zinc Fluoride
	14324-55-1	Zinc,Bis(diethylcarbamodithioato-S,S)-
	14639-97-5	Zinc Ammonium Chloride
	14639-98-6	Zinc Ammonium Chloride
	16871-71-9	Zinc Silicofluoride
	52628-25-8	Zinc Ammonium Chloride

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CAS	NAME	C	313	ADD
71751-41-2	**Abamectin**		**313**	**1995**
83-32-9	**Acenaphthene**	**C**		**1991**
208-96-8	**Acenaphthylene**	**C**		**1992**
30560-19-1	**Acephate**		**313**	**1995**
75-07-0	**Acetaldehyde**	**C**	**313**	**1990**
75-87-6	**Acetaldehyde, trichloro-**	**C**		**1991**
60-35-5	**Acetamide**	**C**	**313**	**1990**
64-19-7	**Acetic acid (concentrations of 12% or less are NOT reportable)**	**C**		**1991**
108-05-4	**Acetic acid ethenyl ester**	**C**	**X**	**1990**
94-75-7	**Acetic acid, (2,4-dichlorophenoxy)-**	**C**	**X**	**1990**
108-24-7	**Acetic anhydride**	**C**		**1991**
67-64-1	**Acetone**	**C**		**1990**
75-86-5	**Acetone cyanohydrin**	**C**	**X**	**1991**
75-05-8	**Acetonitrile**	**C**	**313**	**1990**
98-86-2	**Acetophenone**	**C**	**313**	**1991**
53-96-3	**2-Acetylaminofluorene**	**C**	**313**	**1990**
506-96-7	**Acetyl bromide**	**C**		**1992**
75-36-5	**Acetyl chloride**	**C**		**1991**
30560-19-1	**Acetylphosphoramidothioic acid O,S-dimethyl ester**		**X**	**1995**
591-08-2	**1-Acetyl-2-thiourea**	**C**		**1992**
62476-59-9	**Acifluorfen, sodium salt**		**313**	**1995**
107-02-8	**Acrolein**	**C**	**313**	**1990**
79-06-1	**Acrylamide**	**C**	**313**	**1990**
79-10-7	**Acrylic acid**	**C**	**313**	**1990**
107-13-1	**Acrylonitrile**	**C**	**313**	**1990**
124-04-9	**Adipic acid**	**C**		**1991**
15972-60-8	**Alachlor**		**313**	**1995**
116-06-3	**Aldicarb**	**C**	**313**	**1991**
309-00-2	**Aldrin**	**C**	**313**	**1990**
107-18-6	**Allyl alcohol**	**C**	**313**	**1990**
107-05-1	**Allyl chloride**	**C**	**313**	**1990**
107-11-9	**Allylamine**		**313**	**1995**
319-84-6	**alpha-BHC**	**C**	**X**	**1992**
88671-89-0	**.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile**		**X**	**1995**
60168-88-9	**.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol**		**X**	**1995**
959-98-8	**alpha - Endosulfan**	**C**		**1992**
319-84-6	**alpha-Hexachlorocyclohexane**	**C**	**313**	**1992**
134-32-7	**alpha-Naphthylamine**	**C**	**313**	**1990**
7429-90-5	**Aluminum (fume or dust)**		**313**	**1990**
1344-28-1	**Aluminum oxide (fibrous forms)**		**313**	**1990**
20859-73-8	**Aluminum phosphide**	**C**	**313**	**1993**
10043-01-3	**Aluminum sulfate**	**C**		**1993**
834-12-8	**Ametryn**		**313**	**1995**
117-79-3	**2-Aminoanthraquinone**		**313**	**1990**
60-09-3	**4-Aminoazobenzene**		**313**	**1990**
92-67-1	**4-Aminobiphenyl**	**C**	**313**	**1990**
82-28-0	**1-Amino-2-methylanthraquinone**		**313**	**1990**
2763-96-4	**5-(Aminomethyl)-3-isoxazolol**	**C**		**1992**
504-24-5	**4-Aminopyridine**	**C**		**1992**

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CAS	NAME	C	313	ADD
33089-61-1	**Amitraz**		**313**	**1995**
61-82-5	**Amitrole**	**C**	**313**	**1991**
7664-41-7	**Ammonia**	**C**	**313**	**1990**
631-61-8	**Ammonium acetate**	**C**		**1992**
1863-63-4	**Ammonium benzoate**	**C**		**1992**
1066-33-7	**Ammonium bicarbonate**	**C**		**1992**
2151-16-3	**Ammonium bichromate**	**C**	*	**1993**
1341-49-7	**Ammonium bifluoride**	**C**		**1992**
10192-30-0	**Ammonium bisulfite**	**C**		**1993**
1111-78-0	**Ammonium carbamate**	**C**		**1992**
506-87-6	**Ammonium carbonate**	**C**		**1992**
12125-02-9	**Ammonium chloride**	**C**		**1993**
7788-98-9	**Ammonium chromate**	**C**	*	**1993**
3012-65-5	**Ammonium citrate, dibasic**	**C**		**1992**
13826-83-0	**Ammonium fluoborate**	**C**		**1993**
12125-01-8	**Ammonium fluoride**	**C**		**1993**
1336-21-6	**Ammonium hydroxide**	**C**		**1992**
5972-73-6	**Ammonium oxalate**	**C**		**1992**
6009-70-7	**Ammonium oxalate**	**C**		**1992**
14258-49-2	**Ammonium oxalate**	**C**		**1993**
131-74-8	**Ammonium picrate**	**C**		**1991**
16919-19-0	**Ammonium silicofluoride**	**C**		**1993**
7773-06-0	**Ammonium sulfamate**	**C**		**1993**
12135-76-1	**Ammonium sulfide**	**C**		**1993**
10196-04-0	**Ammonium sulfite**	**C**		**1993**
3164-29-2	**Ammonium tartrate**	**C**		**1992**
14307-43-8	**Ammonium tartrate**	**C**		**1993**
1762-95-4	**Ammonium thiocyanate**	**C**	*	**1992**
7803-55-6	**Ammonium vanadate**	**C**		**1993**
628-63-7	**Amyl acetate**	**C**		**1992**
101-05-3	**Anilazine**		**313**	**1995**
62-53-3	**Aniline**	**C**	**313**	**1990**
120-12-7	**Anthracene**	**C**	**313**	**1990**
7440-36-0	**Antimony**	**C**	**313**	**1990**
1000	**Antimony Compounds**	**C**	**313**	
7647-18-9	**Antimony pentachloride**	**C**	*	**1993**
28300-74-5	**Antimony potassium tartrate**	**C**	*	**1993**
7789-61-9	**Antimony tribromide**	**C**	*	**1993**
10025-91-9	**Antimony trichloride**	**C**	*	**1993**
7783-56-4	**Antimony trifluoride**	**C**	*	**1993**
1309-64-4	**Antimony trioxide**	**C**	*	**1992**
86-88-4	**Antu**	**C**		**1991**
12674-11-2	**Aroclor 1016**	**C**		**1993**
11104-28-2	**Aroclor 1221**	**C**		**1993**
11141-16-5	**Aroclor 1232**	**C**		**1993**
53469-21-9	**Aroclor 1242**	**C**		**1993**
12672-29-6	**Aroclor 1248**	**C**		**1993**
11097-69-1	**Aroclor 1254**	**C**		**1993**
11096-82-5	**Aroclor 1260**	**C**		**1993**
7440-38-2	**Arsenic**	**C**	**313**	**1990**
1327-52-2	**Arsenic acid**	**C**	*	**1992**
7778-39-4	**Arsenic acid**	**C**	*	**1993**
1001	**Arsenic Compounds**	**C**	**313**	
1303-32-8	**Arsenic disulfide**	**C**	*	**1992**
1303-28-2	**Arsenic pentoxide**	**C**	*	**1992**
1327-53-3	**Arsenic trioxide**	**C**	*	**1992**

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1303-33-9	**Arsenic trisulfide**	**C**	*	**1992**
1327-53-3	**Arsenous oxide**	**C**		**1992**
7784-34-1	**Arsenous trichloride**	**C**	*	**1993**
1332-21-4	**Asbestos (friable)**	**C**	**313**	**1990**
1912-24-9	**Atrazine**		**313**	**1995**
492-80-8	**Auramine**	**C**	**X**	**1990**
71751-41-2	**Avermectin B1**		**X**	**1995**
115-02-6	**Azaserine**	**C**		**1991**
86-50-0	**Azinphos-methyl**	**C**		**1991**
151-56-4	**Aziridine**	**C**	**X**	**1990**
75-55-8	**Aziridine, 2-methyl**	**C**	**X**	**1990**
7440-39-3	**Barium**		**313**	**1990**
1002	**Barium Compounds**		**N040**	
542-62-1	**Barium cyanide**	**C**	*	**1992**
22781-23-3	**Bendiocarb**		**313**	**1995**
1582-09-8	**Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-**	**C**	**X**	**1990**
1861-40-1	**Benfluralin**		**313**	**1995**
17804-35-2	**Benomyl**		**313**	**1995**
56-55-3	**Benz[a]anthracene**	**C**	**313***	**1991**
225-51-4	**Benz[c]acridine**	**C**		**1992**
98-87-3	**Benzal chloride**	**C**	**313**	**1990**
55-21-0	**Benzamide**		**313**	**1990**
23950-58-5	**Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl**	**C**	**X**	**1993**
71-43-2	**Benzene**	**C**	**313**	**1990**
72-43-5	**Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-**	**C**	**X**	**1990**
91-08-7	**Benzene, 1,3-diisocyanato-2-methyl-**	**C**	**X**	**1990**
26471-62-5	**Benzene, 1,3-diisocyanatomethyl-**	**C**	**X**	**1990**
1836-75-5	**Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-**		**X**	
584-84-9	**Benzene, 2,4-diisocyanato-1-methyl-**	**C**	**X**	**1990**
108-38-3	**Benzene, m-dimethyl-**	**C**	**X**	**1990**
95-47-6	**Benzene, o-dimethyl-**	**C**	**X**	**1990**
106-42-3	**Benzene, p-dimethyl-**	**C**	**X**	**1990**
510-15-6	**Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester**	**C**	**X**	
135-20-6	**Benzeneamine, N-hydroxy-N-nitroso, ammonium salt**		**X**	**1990**
1897-45-6	**1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-**		**X**	**1990**
122-09-8	**Benzeneethanamine, alpha,alpha-dimethyl-**	**C**		**1991**
115-32-2	**Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-**	**C**	**X**	**1990**
98-09-9	**Benzenesulfonyl chloride**	**C**		**1991**
108-98-5	**Benzenethiol**	**C**		**1991**
92-87-5	**Benzidine**	**C**	**313**	**1990**

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218-01-9	**Benzo(a)phenanthrene**	**C**	**313 ***	**1992**
22961-82-6	**1,3-Benzodioxol-4-ol,2,2-dimethyl-,(bendiocarbphenol)**	**C**		
205-82-3	**Benzo(j)fluoranthene**		**313 ***	**1995**
207-08-9	**Benzo(k)fluoranthene**	**C**	**313 ***	**1992**
189-55-9	**Benzo(rst)pentaphene**	**C**	**313 ***	**1991**
50-32-8	**Benzo[a]pyrene**	**C**	**313 ***	**1991**
205-99-2	**Benzo[b]fluoranthene**	**C**	**313 ***	**1992**
1563-38-8	**7-Benzofuranol,2,3-dihydro-2,2-dimethyl-(carbofuran phenol)**	**C**		
191-24-2	**Benzo[ghi]perylene**	**C**		**1991**
65-85-0	**Benzoic acid**	**C**		**1991**
57-64-7	**Benzoic Acid (Physostigminesalicylate)**	**C**		
133-90-4	**Benzoic acid, 3-amino-2,5-dichloro-**	**C**	**X**	**1990**
98-07-7	**Benzoic trichloride**	**C**	**313**	**1990**
100-47-0	**Benzonitrile**	**C**		**1991**
98-07-7	**Benzotrichloride**	**C**	**X**	**1990**
98-88-4	**Benzoyl chloride**	**C**	**313**	**1990**
94-36-0	**Benzoyl peroxide**		**313**	**1990**
100-44-7	**Benzyl chloride**	**C**	**313**	**1990**
7440-41-7	**Beryllium**	**C**	**313**	**1990**
7787-47-5	**Beryllium chloride**	**C**	*****	**1993**
1003	**Beryllium Compounds**	**C**	**313**	
7787-49-7	**Beryllium fluoride**	**C**	*****	**1993**
7787-55-5	**Beryllium nitrate**	**C**	*****	**1993**
13597-99-4	**Beryllium nitrate**	**C**	*****	**1993**
33213-65-9	**beta - Endosulfan**	**C**		**1993**
319-85-7	**beta-BHC**	**C**		**1992**
91-59-8	**beta-Naphthylamine**	**C**	**313**	**1990**
57-57-8	**beta-Propiolactone**	**C**	**313**	**1990**
82657-04-3	**Bifenthrin**		**313**	**1995**
1464-53-5	**2,2'-Bioxirane**	**C**	**X**	**1990**
92-52-4	**Biphenyl**	**C**	**313**	**1990**
108-60-1	**Bis(2-chloro-1-methylethyl)ether**	**C**	**313**	**1990**
111-91-1	**Bis(2-chloroethoxy) methane**	**C**	**313**	**1991**
111-44-4	**Bis(2-chloroethyl) ether**	**C**	**313**	**1990**
117-81-7	**Bis(2-ethylhexyl)phthalate**	**C**	**X**	**1990**
542-88-1	**Bis(chloromethyl) ether**	**C**	**313**	**1990**
97-74-5	**Bis(dimethylthiocarbamoyl) sulfide (tetramethylthiurammonosulfide)**	**C**		
38661-72-2	**1,3-Bis(methylisocyanate)cyclohexane**		**313 ***	**1995**
10347-54-3	**1,4-Bis(methylisocyanate)cyclohexane**		**313 ***	**1995**
56-35-9	**Bis(tributyltin) oxide**		**313**	**1995**

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10294-34-5	**Borane, trichloro-**		X	1995
7637-07-2	**Borane, trifluoro-**		X	1995
10294-34-5	**Boron trichloride**		313	1995
7637-07-2	**Boron trifluoride**		313	1995
314-40-9	**Bromacil**		313	1995
53404-19-6	**Bromacil, lithium salt**		313	1995
7726-95-6	**Bromine**		313	1995
598-31-2	**Bromoacetone**	C		1992
35691-65-7	**1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile**		313	1995
353-59-3	**Bromochlorodifluoromethane**		313	1992
75-25-2	**Bromoform**	C	313	1990
74-83-9	**Bromomethane**	C	313	1990
314-40-9	**5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione**		X	1995
101-55-3	**4-Bromophenyl phenyl ether**	C		1991
75-63-8	**Bromotrifluoromethane**		313	1991
1689-84-5	**Bromoxynil**		313	1995
1689-99-2	**Bromoxynil octanoate**		313	
52-51-7	**Bronopol**		X	
357-57-3	**Brucine**	C	313	1992
106-99-0	**1,3-Butadiene C**		313	
78-79-5	**1,3-Butadiene, 2-methyl-**	C		1991
4170-30-3	**2-Butenal**	C	X	
123-73-9	**2-Butenal, (e)-**	C		1991
764-41-0	**2-Butene, 1,4-dichloro-**	C	X	1992
123-86-4	**Butyl acetate**	C		1991
141-32-2	**Butyl acrylate**		313	1990
85-68-7	**Butyl benzyl phthalate**	C		1990
109-73-9	**Butylamine**	C		1991
106-88-7	**1,2-Butylene oxide**	C	313	1990
1114-71-2	**Butylethylcarbamothioic acid S-propyl ester**		X	1995
123-72-8	**Butyraldehyde**		313	1990
107-92-6	**Butyric acid**	C		1991
4680-78-8	**C.I. Acid Green 3**		313	1990
6459-94-5	**C.I. Acid Red 114**		313	1995
569-64-2	**C.I. Basic Green 4**		313	1990
989-38-8	**C.I. Basic Red 1**		313	1990
1937-37-7	**C.I. Direct Black 38**		313	1990
28407-37-6	**C.I. Direct Blue 218**		313	1995
2602-46-2	**C.I. Direct Blue 6**		313	1990
16071-86-6	**C.I. Direct Brown 95**		313	1990
2832-40-8	**C.I. Disperse Yellow 3**		313	1990
81-88-9	**C.I. Food Red 15**		313	1990
3761-53-3	**C.I. Food Red 5**		313	1990
3118-97-6	**C.I. Solvent Orange 7**		313	1990
842-07-9	**C.I. Solvent Yellow 14**		313	1990
97-56-3	**C.I. Solvent Yellow 3**		313	1990
492-80-8	**C.I. Solvent Yellow 34**	C	313	1990
128-66-5	**C.I. Vat Yellow 4**		313	1990
75-60-5	**Cacodylic acid**	C		1991
7440-43-9	**Cadmium**	C	313	1990
543-90-8	**Cadmium acetate**	C	*	1992

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7789-42-6	**Cadmium bromide**	C	*	1993
10108-64-2	**Cadmium chloride**	C	*	1993
1004	**Cadmium Compounds**	C	313	
7778-44-1	**Calcium arsenate**	C	*	1993
52740-16-6	**Calcium arsenite**	C	*	1993
75-20-7	**Calcium carbide**	C		1991
13765-19-0	**Calcium chromate**	C	*	1993
156-62-7	**Calcium cyanamide**	C	313	1990
592-01-8	**Calcium cyanide**	C	*	1992
26264-06-2	**Calcium dodecylbenzenesulfonate**	C		1993
7778-54-3	**Calcium hypochlorite**	C		1993
8001-35-2	**Camphechlor**	C	X	1990
8001-35-2	**Camphene, octachloro-**	C	X	1990
133-06-2	**Captan**	C	313	1990
55285-14-8	**Carbamic acid, [(dibutylamino)thio]methyl-,2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester(carbosulfan)**	C		
10605-21-7	**Carbamic acid, 1H-benzimidazol-2-yl,methyl ester (carbendazim)**	C		
28249-77-6	**Carbamic acid, diethylthio-, S-(p-chlorobenzyl)**		X	1995
644-64-4	**Carbamic acid, dimethyl-,1-[(dimethylamino)carbonyl]-5-methyl-1H-pyrazol-3-y-l ester(Dimetilan)**	C		
51-79-6	**Carbamic acid, ethyl ester**	C	X	1990
1129-41-5	**Carbamic acid, methyl- 3-methylphenyl ester (metolcarb)**	C		
122-42-9	**Carbamic acid, phenyl-, 1-methylethyl ester (propham)**	C		
119-38-0	**Carbamic acid,dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester (isolan)**	C		
101-27-9	**Carbamic, (3-chlorophenyl)-,4-chloro-2-butynyl ester(barban)**	C		
51026-28-9	**Carbamodithioic acid, (hydroxymethyl)methyl-,monopotassium salt (potassium n-hydroxymethyl-n-methyldithiocarbamate)**	C		
12427-38-2	**Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex**		X	
12122-67-7	**Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex**		X	1990
136-30-1	**Carbamodithioic acid, dibutyl, sodium salt (Sodium dibutyldithiocarbamate)**	C		
95-06-7	**Carbamodithioic acid, diethyl-, 2-chloro-2-propenyl ester(sulfallate)**	C		
148-18-5	**Carbamodithioic acid, diethyl-,sodium salt (sodium**	C		

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CAS	NAME	C	313	ADD
	diethyldithiocarbamate)			
144-34-3	**Carbamodithioic acid, dimethyl-, tetraanhydrosulfid with orthothioselenious acid(selenium, tetrakis(dimethyldithiocarbamate))**	**C**	*****	
2303-16-4	**Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester**	**C**	**X**	
2008-41-5	**Carbamothioic acid, bis(2-methylpropyl)-, S-ethyl ester (butylate)**	**C**		
52888-80-9	**Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester (prosulfocarb)**	**C**		
1929-77-7	**Carbamothioic acid, dipropyl-, S-propyl ester (vemolate)**	**C**		
63-25-2	**Carbaryl**	**C**	**313**	**1990**
1563-66-2	**Carbofuran**	**C**	**313**	**1992**
52888-80-9	**Carbomothioic acid, dipropyl-, S-(phenylmethyl) ester (prosulfocarb)**	**C**		
75-15-0	**Carbon disulfide**	**C**	**313**	**1990**
463-58-1	**Carbon oxide sulfide (COS)**	**C**	**X**	**1990**
56-23-5	**Carbon tetrachloride**	**C**	**313**	**1990**
75-44-5	**Carbonic dichloride**	**C**	**X**	**1990**
353-50-4	**Carbonic difluoride**	**C**		**1992**
79-22-1	**Carbonochloridic acid, methylester**	**C**	**X**	**1991**
463-58-1	**Carbonyl sulfide**	**C**	**313**	**1990**
5234-68-4	**Carboxin**		**313**	**1995**
120-80-9	**Catechol**	**C**	**313**	**1990**
75-69-4	**CFC-11**	**C**	**X**	**1991**
76-14-2	**CFC-114**		**X**	**1991**
76-15-3	**CFC-115**		**X**	**1991**
75-71-8	**CFC-12**	**C**	**X**	**1991**
75-72-9	**CFC-13**		**X**	**1995**
2439-01-2	**Chinomethionat**		**313**	**1995**
133-90-4	**Chloramben**	**C**	**313**	**1990**
305-03-3	**Chlorambucil**	**C**		**1992**
57-74-9	**Chlordane**	**C**	**313**	**1990**
1005	**Chlordane (Technical Mixture and Metabolites)**	**C**		
115-28-6	**Chlorendic acid**		**313**	**1995**
90982-32-4	**Chlorimuron ethyl**		**313**	**1995**
1006	**Chlorinated Benzenes**	**C**		
1007	**Chlorinated Ethanes**	**C**		
1008	**Chlorinated Naphthalene**	**C**		
1009	**Chlophenols**	**C**	**313**	
7782-50-5	**Chlorine**	**C**	**313**	**1990**
10049-04-4	**Chlorine dioxide**		**313**	**1990**
10049-04-4	**Chlorine oxide (ClO2)**		**X**	**1990**
494-03-1	**Chlornaphazine**	**C**		**1992**
107-20-0	**Chloroacetaldehyde**	**C**		**1991**
79-11-8	**Chloroacetic acid**	**C**	**313**	**1990**

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532-27-4	**2-Chloroacetophenone**	**C**	**313**	**1990**
1011	**Chloroalkyl Ethers**	**C**		
4080-31-3	**1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride**		**313**	**1995**
51630-58-1	**4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester**		**X**	**1995**
108-90-7	**Chlorobenzene**	**C**	**313**	**1990**
510-15-6	**Chlorobenzilate**	**C**	**313**	**1990**
66441-23-4	**2-(4-((6-Chloro-2-benzoxazolylen)oxy)phenoxy)propanoic acid, ethyl ester**		**X**	**1995**
124-48-1	**Chlorodibromomethane**	**C**		**1991**
75-68-3	**1-Chloro-1,1-difluoroethane**		**313**	
75-45-6	**Chlorodifluoromethane**		**313**	
5902-51-2	**5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione**		**X**	**1995**
75-00-3	**Chloroethane**	**C**	**313**	**1990**
110-75-8	**2-Chloroethyl vinyl ether**	**C**		**1991**
67-66-3	**Chloroform**	**C**	**313**	**1990**
74-87-3	**Chloromethane**	**C**	**313**	**1990**
27314-13-2	**4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone**		**X**	**1995**
542-88-1	**Chloromethyl ether**	**C**	**X**	**1990**
107-30-2	**Chloromethyl methyl ether**	**C**	**313**	**1990**
3653-48-3	**(4-Chloro-2-methylphenoxy) acetate sodium salt**		**X**	**1995**
94-74-6	**(4-Chloro-2-methylphenoxy) acetic acid**		**X**	**1995**
563-47-3	**3-Chloro-2-methyl-1-propene**		**313**	**1995**
91-58-7	**2-Chloronaphthalene**	**C**		**1991**
51-75-2	**2-Chloro-N-(2-chloroethyl)-N-methylethanamine**		**X**	**1990**
1912-24-9	**6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine**		**X**	**1995**
64902-72-3	**2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl)benzenesulfonamide**		**X**	**1995**
1918-16-7	**2-Chloro-N-(1-methylethyl)-N-phenylacetamide**		**X**	**1995**
95-57-8	**2-Chlorophenol**	**C**	*****	**1991**
	Chlorophenols	**C**	**313**	
43121-43-3	**1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone**		**X**	**1995**
76-06-2	**Chloropicrin**		**313**	**1995**
126-99-8	**Chloroprene**	**C**	**313**	**1990**
76578-14-8	**2-(4-((6-Chloro-2-quinoxalinyl)oxy]phenoxy) propanoic acid ethyl ester**		**X**	**1995**
3165-93-3	**4-Chloro-o-toluidine,**	**C**		**1992**

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CAS	NAME	C	313	ADD
	hydrochloride			
7005-72-3	**4-Chlorophenyl phenyl ether**	**C**	*****	**1992**
542-76-7	**3-Chloropropionitrile**	**C**	**313**	**1992**
7790-94-5	**Chlorosulfonic acid**	**C**		**1993**
63938-10-3	**Chlorotetrafluoroethane**		**313**	
354-25-6	**1-Chloro-1,1,2,2-tetrafluoroethane**		**313**	
2837-89-0	**2-Chloro-1,1,1,2-tetrafluoroethane**		**313**	
1897-45-6	**Chlorothalonil**		**313**	**1990**
1929-82-4	**2-Chloro-6-(trichloromethyl)pyridine**		**X**	**1995**
75-88-7	**2-Chloro-1,1,1-trifluoroethane**		**313**	**1995**
75-72-9	**Chlorotrifluoromethane**		**313**	**1995**
77501-63-4	**5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester**		**X**	**1995**
62476-59-9	**5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt**		**X**	**1995**
72178-02-0	**5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide**		**X**	**1995**
460-35-5	**3-Chloro-1,1,1-trifluoropropane**		**313**	**1995**
68085-85-8	**3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-Dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester**	**X**		**1995**
2921-88-2	**Chlorpyrifos**	**C**		**1992**
5598-13-0	**Chlorpyrifos methyl**		**313**	**1995**
64902-72-3	**Chlorsulfuron**		**313**	**1995**
1066-30-4	**Chromic acetate**	**C**	*****	**1992**
7738-94-5	**Chromic acid**	**C**	*****	**1993**
11115-74-5	**Chromic acid**	**C**	*****	**1993**
10101-53-8	**Chromic sulfate**	**C**	*****	**1993**
7440-47-3	**Chromium**	**C**	**313**	**1990**
1012	**Chromium Compounds**	**C**	**313**	
10049-05-5	**Chromous chloride**	**C**	*****	**1993**
218-01-9	**Chrysene**	**C**	**X***	**1992**
7440-48-4	**Cobalt**		**313**	**1990**
1013	**Cobalt Compounds**	**C**	**313**	
7789-43-7	**Cobaltous bromide**	**C**	*****	**1993**
544-18-3	**Cobaltous formate**	**C**	*****	**1992**
14017-41-5	**Cobaltous sulfamate**	**C**	*****	**1993**
1014	**Coke Oven Emissions**	**C**		
7440-50-8	**Copper – reportable to EPA ONLY**		**313**	**1990**
1015	**Copper Compounds**	**C**	**313**	
544-92-3	**Copper cyanide**	**C**	*****	**1992**
137-29-1	**Copper, bis(dimethylcarbamodithioato-S-S)-(copper dimethyldithiocarbamate)**	**C**	*****	
56-72-4	**Coumaphos**	**C**		**1991**
8001-58-9	**Creosote**	**C**	**313**	**1990**
1319-77-3	**Cresol (mixed isomers)**	**C**	**313**	**1990**

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4170-30-3	**Crotonaldehyde**	**C**	**313**	**1992**
123-73-9	**Crotonaldehyde, (E)-**	**C**		**1991**
98-82-8	**Cumene**	**C**	**313**	**1990**
80-15-9	**Cumene hydroperoxide**	**C**	**313**	**1990**
135-20-6	**Cupferron**		**313**	**1990**
142-71-2	**Cupric acetate**	**C**		**1991**
12002-03-8	**Cupric acetoarsenite**	**C**		**1993**
7447-39-4	**Cupric chloride**	**C**		**1992**
3251-23-8	**Cupric nitrate**	**C**	*****	**1992**
5893-66-3	**Cupric oxalate**	**C**	*****	**1992**
7758-98-7	**Cupric sulfate**	**C**	*****	**1993**
10380-29-7	**Cupric sulfate, ammoniated**	**C**	*****	**1993**
815-82-7	**Cupric tartrate**	**C**	*****	**1992**
21725-46-2	**Cyanazine**		**313**	**1995**
1016	**Cyanide Compounds**	**C**	**N106**	
57-12-5	**Cyanides (soluble salts and complexes)**	**C**	*****	**1991**
460-19-5	**Cyanogen**	**C**	*****	**1992**
506-68-3	**Cyanogen bromide**	**C**	*****	**1992**
506-77-4	**Cyanogen chloride**	**C**	*****	**1992**
506-77-4	**Cyanogen chloride ((CN)Cl)**	**C**	*****	**1992**
1134-23-2	**Cycloate**		**313**	**1995**
68-76-8	**2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-**		**X**	**1990**
110-82-7	**Cyclohexane**	**C**	**313**	**1990**
2556-36-7	**1,4-Cyclohexane diisocyanate**		**313***	**1995**
58-89-9	**Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-**	**C**	**X**	**1990**
108-93-0	**Cyclohexanol**		**313**	**1995**
108-94-1	**Cyclohexanone**	**C**		**1991**
131-89-5	**2-Cyclohexyl-4,6-dinitrophenol**	**C**		**1991**
50-18-0	**Cyclophosphamide**	**C**		**1991**
68359-37-5	**Cyfluthrin**		**313**	**1995**
68085-85-8	**Cyhalothrin**		**313**	**1995**
94-75-7	***2,4-D***	***C***	***313***	***1990***
20830-81-3	**Daunomycin**	**C**		**1993**
533-74-4	**Dazomet**		**313**	**1995**
53404-60-7	**Dazomet, sodium salt**		**313**	**1995**
94-75-7	**2,4-D Acid**	**C**	**X**	**1990**
94-82-6	**2,4-DB**		**313**	**1995**
96-12-8	**DBCP**	**C**	**X**	**1990**
1929-73-3	**2,4-D butoxyethyl ester**	**C**	**313**	**1992**
94-80-4	**2,4-D butyl ester**	**C**	**313**	**1991**
2971-38-2	**2,4-D chlorocrotyl ester**	**C**	**313**	**1992**
72-54-8	**DDD**	**C**		**1991**
72-55-9	**DDE**	**C**		**1991**
3547-04-4	**DDE**	**C**		
3547-04-4	**DDET**	**C**		
50-29-3	**DDT**	**C**		**1991**
1017	**DDT and Metabolites**	**C**		
1163-19-5	**Decabromodiphenyl oxide**		**313**	**1990**
78-48-8	**DEF**		**X**	**1995**

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117-81-7	**DEHP**	C	X	1990
319-86-8	**delta-BHC**	C		1992
13684-56-5	**Desmedipham**		313	1995
94-11-1	**2,4-D Esters**	C	X	1991
94-79-1	**2,4-D Esters**	C		1991
94-80-4	**2,4-D Esters**	C	X	1991
1320-18-9	**2,4-D Esters**	C	X	1992
1928-38-7	**2,4-D Esters**	C		1992
1928-61-6	**2,4-D Esters**	C		1992
1929-73-3	**2,4-D Esters**	C	X	1992
2971-38-2	**2,4-D Esters**	C	X	1992
25168-26-7	**2,4-D Esters**	C		1993
53467-11-1	**2,4-D Esters**	C		1993
1928-43-4	**2,4-D 2-ethylhexyl ester**		313	1995
53404-37-8	**2,4-D 2-ethyl-4-methylpentyl ester**		313	1995
18883-66-4	**D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)-carbo**	C		1993
117-81-7	**Di(2-ethylhexyl) phthalate**	C	313	1990
2303-16-4	**Diallate**	C	313	1990
615-05-4	**2,4-Diaminoanisole**		313	1990
39156-41-7	**2,4-Diaminoanisole sulfate**		313	1990
101-80-4	**4,4'-Diaminodiphenyl ether**		313	1990
496-72-0	**Diaminotoluene**	C		1992
823-40-5	**Diaminotoluene**	C		1992
25376-45-8	**Diaminotoluene (mixed isomers)**	C	313	1990
95-80-7	**2,4-Diaminotoluene**	C	313	1990
333-41-5	**Diazinon**	C	313	1992
334-88-3	**Diazomethane**	C	313	1990
226-36-8	**Dibenz(a,h)acridine**		313*	1995
224-42-0	**Dibenz(a,j)acridine**		313*	1995
53-70-3	**Dibenz[a,h]anthracene**	C	313*	1991
189-55-9	**Dibenz[a,i]pyrene**	C	X*	1991
5385-75-1	**Dibenzo(a,e)fluoranthene**		313*	1995
192-65-4	**Dibenzo(a,e)pyrene**		313*	1995
189-64-0	**Dibenzo(a,h)pyrene**		313*	1995
191-30-0	**Dibenzo(a,l)pyrene**		313*	1995
132-64-9	**Dibenzofuran**	C	313	1990
96-12-8	**1,2-Dibromo-3-chloropropane**	C	313	1990
106-93-4	**1,2-Dibromoethane**	C	313	1990
1689-84-5	**3,5-Dibromo-4-hydroxybenzonitrile**		X	1995
124-73-2	**Dibromotetrafluoroethane**		313	1991
10222-01-2	**2,2-Dibromo-3-nitrilopropionamide**		313	1995
84-74-2	**Dibutyl phthalate**	C	313	1990
1918-00-9	**Dicamba**	C	313	1992
1194-65-6	**Dichlobenil**	C		1992
117-80-6	**Dichlone**	C		1991
99-30-9	**Dichloran**		313	1995

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52645-53-1	**3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic acid, (3-phenoxy-phenyl)methyl ester**		X	1995
68359-37-5	**3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester**		X	
25321-22-6	**Dichlorobenzene**	C	X	1990
25321-22-6	**Dichlorobenzene (mixed isomers)**	C	313	1990
95-50-1	**1,2-Dichlorobenzene**	C	313	1990
541-73-1	**1,3-Dichlorobenzene**	C	313	1990
106-46-7	**1,4-Dichlorobenzene**	C	313	1990
1018	**Dichlorobenzidine**	C		
91-94-1	**3,3'-Dichlorobenzidine**	C	313	1990
612-83-9	**3,3'-Dichlorobenzidine dihydrochloride**		313	1995
64969-34-2	**3,3'-Dichlorobenzidine sulfate**		313	1995
75-27-4	**Dichlorobromomethane**	C	313	1990
764-41-0	**1,4-Dichloro-2-butene**	C	313	1992
1717-00-6	**1,1-Dichloro-1-fluoroethane**		313	
1649-08-7	**1,2-Dichloro-1,1-difluoroethane**		313	1995
75-71-8	**Dichlorodifluoromethane**	C	313	1991
75-34-3	**1,1-Dichloroethane**	C	X	1991
107-06-2	**1,2-Dichloroethane**	C	313	1990
75-35-4	**1,1-Dichloroethylene**	C	X	1990
156-60-5	**1,2-Dichloroethylene**	C		1991
540-59-0	**1,2-Dichloroethylene**		313	1990
111-44-4	**Dichloroethyl ether**	C	X	1990
75-43-4	**Dichlorofluoromethane**		313	
108-60-1	**Dichloroisopropyl ether**	C	X	1990
75-09-2	**Dichloromethane**	C	313	1990
1918-00-9	**3,6-Dichloro-2-methoxybenzoic acid**	C	X	1992
1982-69-0	**3,6-Dichloro-2-methoxybenzoic acid, sodium salt**		X	1995
542-88-1	**Dichloromethyl ether**	C	X	1990
19666-30-9	**3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one**		X	1995
101-05-3	**4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine**		X	1995
99-30-9	**2,6-Dichloro-4-nitroaniline**		X	1995
422-56-0	**3,3-Dichloro-1,1,1,2,2-pentafluoropropane**		313	1995
507-55-1	**1,3-Dichloro-1,1,2,2,3-pentafluoropropane**		313	1995
136013-79-1	**1,3-Dichloro-1,1,2,3,3-pentafluoropropane**		313	1995
422-48-0	**2,3-Dichloro-1,1,1,2,3-pentafluoropropane**		313	1995
120-83-2	**2,4-Dichlorophenol**	C	313	1990
50471-44-8	**3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione**		X	1995
35554-44-0	**1-(2-(2,4-Dichlorophenyl)-2-(2-**		X	1995

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CAS	NAME	C	313	ADD
	propenyloxy)ethyl)-1H-imidazole			
75-99-0	2,2-Dichloropropionic acid	C		1991
60207-90-1	1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole		X	1995
127564-92-5	Dichloropentafluoropropane		313	1995
13474-88-9	1,1-Dichloro-1,2,2,3,3-pentafluoropropane		313	1995
111512-56-2	1,1-Dichloro-1,2,3,3,3-pentafluoropropane		313	1995
422-44-6	1,2-Dichloro-1,1,2,3,3-pentafluoropropane		313	1995
431-86-7	1,2-Dichloro-1,1,3,3,3-pentafluoropropane		313	1995
542-88-1	Dichloromethyl ether	C	X	1990
97-23-4	Dichlorophene		313	1995
87-65-0	2,6-Dichlorophenol	C	*	1991
51338-27-3	2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester		X	1995
696-28-6	Dichlorophenylarsine	C	*	1992
20354-26-1	2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione		X	1995
26638-19-7	Dichloropropane	C		1993
78-99-9	1,1-Dichloropropane	C		1991
78-87-5	1,2-Dichloropropane	C	313	1990
142-28-9	1,3-Dichloropropane	C		1991
542-75-6	1,3-Dichloropropene	C	X	1990
8003-19-8	Dichloropropane -	C		1993
	Dichloropropene (mixture)			
26952-23-8	Dichloropropene	C		
78-88-6	2,3-Dichloropropene	C	313	1990
542-75-6	1,3-Dichloropropylene	C	313	1990
76-14-2	Dichlorotetrafluoroethane		313	1991
34077-87-7	Dichlorotrifluoroethane		313	
90454-18-5	Dichloro-1,1,2-trifluoroethane		313	
812-04-4	1,1-Dichloro-1,2,2-trifluoroethane		313	
306-83-2	2,2-Dichloro-1,1,1-trifluoroethane		313	
354-23-4	1,2-Dichloro-1,1,2-trifluoroethane		313	
62-73-7	Dichlorvos	C	313	1990
51338-27-3	Diclofop methyl		313	1995
115-32-2	Dicofol	C	313	1990
77-73-6	Dicyclopentadiene		313	1995
60-57-1	Dieldrin	C		1991
1464-53-5	Diepoxybutane	C	313	1990
111-42-2	Diethanolamine	C	313	1990
38727-55-8	Diethatyl ethyl		313	1995
84-66-2	Diethyl phthalate	C	313	1990
64-67-5	Diethyl sulfate	C	313	1990
109-89-7	Diethylamine	C		1991
692-42-2	Diethylarsine	C	*	1992
134190-37-7	Diethyldiisocyanatobenzene		313 *	1995
311-45-5	Diethyl-p-nitrophenyl phosphate	C		1992
56-53-1	Diethylstilbestrol	C		1991
35367-38-5	Diflubenzuron		313	1995
101-90-6	Diglycidyl resorcinol ether		313	1995

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CAS	NAME	C	313	ADD
55290-64-7	2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide		X	1995
5234-68-4	5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide		X	1995
94-58-6	Dihydrosafrole	C	313	1991
1050	Diisocyanates (includes only 20 chemicals)		313	
4128-73-8	4,4'-Diisocyanatodiphenyl ether		313	1995
75790-87-3	2,4'-Diisocyanatodiphenyl sulfide		313 *	1995
55-91-4	Diisopropylfluorophosphate	C		1991
309-00-2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	C	X	1990
55290-64-7	Dimethipin		313	1995
60-51-5	Dimethoate	C	313	1991
119-90-4	3,3'-Dimethoxybenzidine	C	313	1990
20325-40-0	3,3'-Dimethoxybenzidine dihydrochloride		313	1995
111984-09-9	3,3'-Dimethoxybenzidine hydrochloride		313	1995
91-93-0	3,3'-Dimethoxybenzidine-4,4'-diisocyanate		313 *	1995
2300-66-5	Dimethylamine dicamba		313	1995
124-40-3	Dimethylamine	C	313	1991
60-11-7	4-Dimethylaminoazobenzene	C	313	1990
60-11-7	Dimethylaminoazobenzene	C	X	1990
57-97-6	7,12-Dimethylbenz[a]anthracene	C	313 *	1991
119-93-7	3,3'-Dimethylbenzidine	C	313	1990
612-82-8	3,3'-Dimethylbenzidine dihydrochloride		313	1995
41766-75-0	3,3'-Dimethylbenzidine dihydrofluoride		313	1995
22781-23-3	2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate		X	1995
79-44-7	Dimethylcarbamyl chloride	C	313	1990
2524-03-0	Dimethyl chlorothiophosphate		313	1995
91-97-4	3,3'-Dimethyl-4,4'-diphenylene diisocyanate		313 *	1995
139-25-3	3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate		313 *	1995
68-12-2	Dimethylformamide	C	X	1995
57-14-7	Dimethylhydrazine	C	X	1990
57-14-7	1,1-Dimethyl hydrazine	C	313	1990
7696-12-0	2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester	X		1995
26002-80-2	2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester		X	1995

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105-67-9	**2,4-Dimethylphenol**	**C**	**313**	**1990**
2524-03-0	**Dimethyl phosphorochloridothioate**		**X**	**1995**
131-11-3	**Dimethyl phthalate**	**C**	**313**	**1990**
77-78-1	**Dimethyl sulfate**	**C**	**313**	**1990**
25154-54-5	**Dinitrobenzene (mixed isomers)**	**C**		**1993**
88-85-7	**Dinitrobutyl phenol**	**C**	**313**	**1991**
534-52-1	**Dinitrocresol**	**C**	**X**	**1992**
329-71-5	**2,5-Dinitrophenol**	**C**		**1992**
573-56-8	**2,6-Dinitrophenol**	**C**		**1992**
606-20-2	**2,6-Dinitrotoluene**	**C**	**313**	**1990**
534-52-1	**4,6-Dinitro-o-cresol**	**C**	**313**	**1990**
534-52-1	**4,6-Dinitro-o-cresol and salts**	**C**		**1992**
25550-58-7	**Dinitrophenol**	**C**		**1993**
51-28-5	**2,4-Dinitrophenol**	**C**	**313**	**1990**
121-14-2	**2,4-Dinitrotoluene**	**C**	**313**	**1990**
610-39-9	**3,4-Dinitrotoluene**	**C**		**1992**
25321-14-6	**Dinitrotoluene (mixed isomers)**	**C**	**313**	**1990**
117-84-0	**Di-n-octyl phthalate**	**C**		**1990**
39300-45-3	**Dinocap**		**313**	**1995**
88-85-7	**Dinoseb**	**C**	**X**	**1991**
621-64-7	**Di-n-propylnitrosamine**	**C**	**X**	**1990**
123-91-1	**1,4-Dioxane**	**C**	**313**	**1990**
1060	**Dioxin and Dioxin like Compounds**		**313**	
957-51-7	**Diphenamid**		**313**	
122-39-4	**Diphenylamine**		**313**	**1995**
1019	**Diphenylhydrazine**	**C**		
122-66-7	**1,2-Diphenylhydrazine**	**C**	**313**	**1990**
152-16-9	**Diphosphoramide, octamethyl-**	**C**		**1991**
2164-07-0	**Dipotassium endothall**		**313**	**1995**
136-45-8	**Dipropyl isocinchomeronate**		**313**	**1995**
142-84-7	**Dipropylamine**	**C**		**1991**
19044-88-3	**4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide**		**X**	**1995**
85-00-7	**Diquat**	**C**		**1991**
2764-72-9	**Diquat**	**C**		**1992**
138-93-2	**Disodium cyanodithioimidocarbonate**		**313**	**1995**
94-11-1	**2,4-D isopropyl ester**	**C**	**313**	**1991**
298-04-4	**Disulfoton**	**C**		**1992**
541-53-7	**Dithiobiuret**	**C**	**X**	**1992**
541-53-7	**2,4-Dithiobiuret**	**C**	**313**	**1992**
26419-73-8	**1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-,O-[(methylamino)carbonyl]oxime (tripate)**	**C**		
330-54-1	**Diuron**	**C**	**313**	**1992**
27176-87-0	**Dodecylbenzenesulfonic acid**	**C**		**1993**
2439-10-3	**Dodecylguanidine monoacetate**		**X**	**1995**
2439-10-3	**Dodine**		**313**	**1995**
120-36-5	**2,4-DP**		**313**	**1995**
1320-18-9	**2,4-D propylene glycol butyl ether ester**	**C**	**313**	**1992**
94-75-7	**2,4-D, salts and esters**	**C**		**1991**
2702-72-9	**2,4-D sodium salt**		**313**	**1995**

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28057-48-9	d-trans-Allethrin		313	1995
28057-48-9	d-trans-Chrysanthemic acid of d-allethrone		X	1995
115-29-7	Endosulfan	C		1991
1020	Endosulfan and Metabolites	C		
1031-07-8	Endosulfan sulfate	C		1992
145-73-3	Endothall	C		1991
72-20-8	Endrin	C		1991
7421-93-4	Endrin aldehyde	C		1992
1021	Endrin and Metabolites	C		
106-89-8	Epichlorohydrin	C	313	1990
51-43-4	Epinephrine	C		1991
759-94-4	EPTC		X	1995
75-04-7	Ethanamine	C		1991
107-15-3	1,2-Ethanediamine	C		1991
630-20-6	Ethane, 1,1,1,2-tetrachloro-	C	X	1992
76-13-1	Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-		X	1990
60-29-7	Ethane, 1,1'-oxybis-	C		1991
505-60-2	Ethane, 1,1'-thiobis[2-chloro-		X	1990
75-00-3	Ethane, chloro-	C	X	1990
460-19-5	Ethanedinitrile	C		1992
79-21-0	Ethaneperoxoic acid		X	1990
30558-43-1	Ethanimidothioci acid, 2-(dimethylamino-n-hydroxy-2-oxo-, methyl ester (A2213)	C		
16752-77-5	Ethanimidothioic acid, N-[[methylamino)carbonyl]	C		1993
23135-22-0	Ethanimidothoic acid, 2-(dimethylamino)-N-[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester (oxamyl)	C		
110-80-5	Ethanol, 2-ethoxy-	C	X	1990
5952-26-1	Ethanol,2,2-oxybis,dicarbamate (diethylene glycol,dicarbamate)	C		
74-85-1	Ethene		X	1990
75-35-4	Ethene, 1,1-dichloro-	C	X	1990
75-01-4	Ethene, chloro-		X	1990
563-12-2	Ethion	C		1992
13194-48-4	Ethoprop		313	1995
13194-48-4	Ethoprophos		X	1995
110-80-5	2-Ethoxyethanol	C	313	1990
74051-80-2	2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one		X	1995
25311-71-1	2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester		X	1995
141-78-6	Ethyl acetate	C		1991
140-88-5	Ethyl acrylate	C	313	1990
31218-83-4	3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester		X	1995
100-41-4	Ethylbenzene	C	313	1990

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51-79-6	Ethyl carbamate	C	X	1990
75-00-3	Ethyl chloride	C	X	1990
541-41-3	Ethyl chloroformate		313	1990
90982-32-4	Ethyl-2-((((4-chloro-6-methoxyprimidin-2-yl)-carbonyl)-amino]sulfonyl)benzoate		X	1995
107-12-0	Ethyl cyanide	C		1991
759-94-4	Ethyl dipropylthiocarbamate		313	1995
74-85-1	Ethylene		313	1990
111-54-6	Ethylenebisdithiocarbamic acid, salts & esters	C	X*	1991
111-54-6	Ethylenebisdithiocarbamic acid, salts and esters		313	
107-15-3	Ethylenediamine	C		1991
60-00-4	Ethylenediamine-tetraacetic acid (EDTA)	C		1991
106-93-4	Ethylene dibromide	C	X	1990
107-06-2	Ethylene dichloride	C	X	1990
107-21-1	Ethylene glycol	C	313	1990
75-21-8	Ethylene oxide	C	313	1990
96-45-7	Ethylene thiourea	C	313	1990
60-29-7	Ethyl ether	C		1991
97-63-2	Ethyl methacrylate	C		1991
62-50-0	Ethyl methanesulfonate	C		1991
151-56-4	Ethyleneimine	C	313	1990
75-34-3	Ethylidene Dichloride	C	313	1991
52-85-7	Famphur	C	313	1991
60168-88-9	Fenarimol		313	1995
13356-08-6	Fenbutatin oxide		313	1995
66441-23-4	Fenoxaprop ethyl		313	1995
72490-01-8	Fenoxycarb		313	1995
39515-41-8	Fenpropathrin		313	1995
55-38-9	Fenthion		313	1995
51630-58-1	Fenvalerate		313	1995
14484-64-1	Ferbam		313	1995
1185-57-5	Ferric ammonium citrate	C		1992
2944-67-4	Ferric ammonium oxalate	C		1992
55488-87-4	Ferric ammonium oxalate	C		1993
7705-08-0	Ferric chloride	C		1993
7783-50-8	Ferric fluoride	C		1993
10421-48-4	Ferric nitrate	C	*	1993
10028-22-5	Ferric sulfate	C		1993
10045-89-3	Ferrous ammonium sulfate	C		1993
7758-94-3	Ferrous chloride	C		1993
7720-78-7	Ferrous sulfate	C	*	1993
7782-63-0	Ferrous sulfate	C		1993
	Fine mineral fibers	C		
	Fine mineral fibers (c)	C		
69806-50-4	Fluazifop butyl		313	1995
2164-17-2	Fluometuron		313	1990
206-44-0	Fluoranthene	C	*	1992
86-73-7	Fluorene	C		1991
7782-41-4	Fluorine	C	313	1993
640-19-7	Fluoroacetamide	C		1992
62-74-8	Fluoroacetic acid, sodium salt	C	X	1991
51-21-8	Fluorouracil		313	1995

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51-21-8	5-Fluorouracil		X	
69409-94-5	Fluvalinate		313	1995
133-07-3	Folpet		313	1995
72178-02-0	Fomesafen		313	1995
50-00-0	Formaldehyde	C	313	1990
50-00-0	Formaldehyde (solution)	C	X	1990
64-18-6	Formic acid	C	313	1991
76-13-1	Freon 113		313	1990
110-17-8	Fumaric acid	C		1991
110-00-9	Furan	C		1991
109-99-9	Furan, tetrahydro-	C		1991
98-01-1	Furfural	C		1991
765-34-4	Glycidylaldehyde	C		1992
1022	Glycol Ethers	C	313	
1022	Glycol Ethers (d)	C		
70-25-7	Guanidine, N-methyl-N'-nitro-N-nitroso-	C		1991
86-50-0	Guthion	C		1991
1023	Haloethers	C		
1024	Halomethanes	C		
353-59-3	Halon 1211		X	1992
75-63-8	Halon 1301		X	1991
124-73-2	Halon 2402		X	1991
2212-67-1	1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester		X	1995
354-14-3	HCFC-121		X	1995
354-11-0	HCFC-121a		X	1995
306-83-2	HCFC-123		X	
354-23-4	HCFC-123a		X	
812-04-4	HCFC-123b		X	
2837-89-0	HCFC-124		X	
354-25-6	HCFC-124a		X	
1649-08-7	HCFC-132b		X	
75-88-7	HCFC-133a		X	1995
	HCFC-141b		X	
75-68-3	HCFC-142b		X	
75-43-4	HCFC-21		X	
75-45-6	HCFC-22		X	
128903-21-9	HCFC-225aa		X	1995
422-48-0	HCFC-225ba		X	1995
422-44-6	HCFC-225bb		X	1995
422-56-0	HCFC-225ca		X	1995
507-55-1	HCFC-225cb		X	1995
13474-88-9	HCFC-225cc		X	
431-86-7	HCFC-225da		X	1995
136013-79-1	HCFC-225ea		X	1995
111512-56-2	HCFC-225eb		X	1995
460-35-5	HCFC-253fb		X	1995
194-59-2	7H-Dibenzo(c,g)carbazole		313 *	1995
76-44-8	Heptachlor	C	313	1990
1025	Heptachlor and Metabolites	C		
1024-57-3	Heptachlor epoxide	C		1992
76-44-8	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	C	X	1990

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87-68-3	Hexachloro-1,3-butadiene	C	313	1990
118-74-1	Hexachlorobenzene	C	313	1990
87-68-3	Hexachlorobutadiene	C	X	1990
	Hexachlorocyclohexane (all isomers) CAS 608-73-1	C		
58-89-9	Hexachlorocyclohexane (gamma isomer)	C	X	1990
77-47-4	Hexachlorocyclopentadiene	C	313	1990
67-72-1	Hexachloroethane	C	313	1990
1335-87-1	Hexachloronaphthalene		313	1990
70-30-4	Hexachlorophene	C	313	1991
1888-71-7	Hexachloropropene	C		1992
757-58-4	Hexaethyl tetraphosphate	C		1992
13356-08-6	Hexakis(2-methyl-2-phenylpropyl)distannoxane		X	1995
822-06-0	Hexamethylene-1,6-diisocyanate	C	313 *	1995
680-31-9	Hexamethylphosphoramide	C	313	1990
110-54-3	Hexane	C	X	1995
51235-04-2	Hexazinone		313	1995
53404-19-6	2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt		X	1995
133-06-2	1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	C	X	1990
67485-29-4	Hydramethylnon		313	1995
302-01-2	Hydrazine	C	313	1990
10034-93-2	Hydrazine sulfate		313	1990
57-14-7	Hydrazine, 1,1-dimethyl-	C	X	1990
1615-80-1	Hydrazine, 1,2-diethyl-	C		1992
540-73-8	Hydrazine, 1,2-dimethyl-	C		1992
122-66-7	Hydrazine, 1,2-diphenyl-	C	X	1990
60-34-4	Hydrazine, methyl-	C	X	1990
122-66-7	Hydrazobenzene	C	X	1990
7647-01-0	Hydrochloric acid	C		1990
74-90-8	Hydrocyanic acid	C	X	1990
7664-39-3	Hydrofluoric acid	C	X	1990
7664-39-3	Hydrofluoric acid (conc. 50% or greater)	C	X	1990
7647-01-0	Hydrogen chloride (anhydrous)	C	X	1990
7647-01-0	Hydrogen chloride (gas only)	C	X	1990
74-90-8	Hydrogen cyanide	C	313	1990
7664-39-3	Hydrogen fluoride	C	313	1990
7664-39-3	Hydrogen fluoride (anhydrous)	C	X	1990
7783-06-4	Hydrogen sulfide	C	313	1993
80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl-	C	X	1990
123-31-9	Hydroquinone (manufactured only)	C	313	1990
35554-44-0	Imazalil		313	1995
193-39-5	Indeno(1,2,3-cd)pyrene	C	313 *	1991
13463-40-6	Iron carbonyl (Fe(CO)5), (TB-5-11)-		X	
13463-40-6	Iron, pentacarbonyl-		313	1995

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CAS	NAME	C	313	ADD
123-92-2	**iso-Amyl acetate**	**C**		**1991**
110-19-0	**iso-Butyl acetate**	**C**		**1991**
78-83-1	**Isobutyl alcohol**	**C**		**1991**
78-81-9	**iso-Butylamine**	**C**		**1991**
78-84-2	**Isobutyraldehyde**		**313**	**1990**
79-31-2	**iso-Butyric acid**	**C**		**1991**
465-73-6	**Isodrin**	**C**	**313**	**1992**
25311-71-1	**Isofenphos**		**313**	**1995**
55-91-4	**Isofluorphate**	**C**		**1991**
78-59-1	**Isophorone**	**C**		**1991**
4098-71-9	**Isophorone diisocyanate**		**313 ***	**1995**
78-79-5	**Isoprene**	**C**		**1991**
42504-46-1	**Isopropanolamine dodecylbenzene sulfonate**	**C**		**1993**
67-63-0	**Isopropyl alcohol (mfg-strong acid process)**		**313**	**1990**
80-05-7	**4,4'-Isopropylidenediphenol**		**313**	**1990**
120-58-1	**Isosafrole**	**C**	**313**	**1990**
556-61-6	**Isothiocyanatomethane**		**X**	**1995**
143-50-0	**Kepone**	**C**		**1991**
77501-63-4	**Lactofen**		**313**	**1995**
303-34-4	**Lasiocarpine**	**C**		**1992**
7439-92-1	**Lead**	**C**	**313**	**1990**
301-04-2	**Lead acetate**	**C**	*****	**1992**
7645-25-2	**Lead arsenate**	**C**	*****	**1993**
7784-40-9	**Lead arsenate**	**C**	*****	**1993**
10102-48-4	**Lead arsenate**	**C**	*****	**1993**
7758-95-4	**Lead chloride**	**C**	*****	**1993**
1026	**Lead Compounds**	**C**	**313**	
13814-96-5	**Lead fluoborate**	**C**	*****	**1993**
7783-46-2	**Lead fluoride**	**C**	*****	**1993**
10101-63-0	**Lead iodide**	**C**	*****	**1993**
10099-74-8	**Lead nitrate**	**C**	*****	**1993**
7446-27-7	**Lead phosphate**	**C**		**1992**
1072-35-1	**Lead stearate**	**C**	*****	**1992**
7428-48-0	**Lead stearate**	**C**	*****	**1992**
52652-59-2	**Lead stearate**	**C**	*****	**1993**
56189-09-4	**Lead stearate**	**C**	*****	**1993**
1335-32-6	**Lead subacetate**	**C**	*****	**1992**
7446-14-2	**Lead sulfate**	**C**	*****	**1992**
15739-80-7	**Lead sulfate**	**C**	*****	**1993**
1314-87-0	**Lead sulfide**	**C**	*****	**1992**
592-87-0	**Lead thiocyanate**	**C**	*****	**1992**
58-89-9	**Lindane**	**C**	**313**	**1990**
330-55-2	**Linuron**		**313**	**1995**
554-13-2	**Lithium carbonate**		**313**	**1995**
14307-35-8	**Lithium chromate**	**C**	*****	**1993**
55406-53-6	**3-Iodo-2-propynyl butylcarbamate**		**313**	**1995**
121-75-5	**Malathion**	**C**	**313**	**1991**
110-16-7	**Maleic acid**	**C**		**1991**
108-31-6	**Maleic anhydride**	**C**	**313**	**1990**
123-33-1	**Maleic hydrazide**	**C**		**1991**
109-77-3	**Malononitrile**	**C**	**313**	**1991**
12427-38-2	**Maneb**		**313**	**1990**

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CAS	NAME	C	313	ADD
7439-96-5	**Manganese**		**313**	**1990**
1027	**Manganese Compounds**	**C**	**313**	
15339-36-3	**Manganese, bis(dimethylcarbamodithioato-S,S)-(manganesedimethyldithiocarbamate)**	**C**	*	
101-14-4	**MBOCA**	**C**	**X**	**1990**
149-30-4	**MBT**		**X**	**1995**
94-74-6	**MCPA**		**X**	**1995**
108-39-4	**m-Cresol**	**C**	**313**	**1990**
99-65-0	**m-Dinitrobenzene**	**C**	**313**	**1990**
101-68-8	**MDI**	**C**	**X***	**1990**
51-75-2	**Mechlorethamine**		**X**	**1990**
93-65-2	**Mecoprop**		**313**	**1995**
148-82-3	**Melphalan**	**C**		**1991**
149-30-4	**2-Mercaptobenzothiazole**		**313**	**1995**
2032-65-7	**Mercaptodimethur**	**C**	**X**	**1992**
592-04-1	**Mercuric cyanide**	**C**	*	**1992**
10045-94-0	**Mercuric nitrate**	**C**	*	**1993**
7783-35-9	**Mercuric sulfate**	**C**	*	**1993**
592-85-8	**Mercuric thiocyanate**	**C**	*	**1992**
7782-86-7	**Mercurous nitrate**	**C**	*	**1993**
10415-75-5	**Mercurous nitrate**	**C**	*	**1993**
7439-97-6	**Mercury**	**C**	**313**	**1990**
1028	**Mercury Compounds**	**C**	**313**	
628-86-4	**Mercury fulminate**	**C**	*	**1992**
150-50-5	**Merphos**		**313**	**1995**
126-98-7	**methacrylonitrile**	**C**	**313**	**1991**
137-42-8	**Metham sodium**		**313**	**1995**
74-89-5	**Methanamine**	**C**		**1991**
75-50-3	**Methanamine, N,N-dimethyl-**	**C**		**1991**
124-40-3	**Methanamine, N-methyl-**	**C**	**X**	**1991**
62-75-9	**Methanamine, N-methyl-N-nitroso-**	**C**	**X**	**1990**
74-87-3	**Methane, chloro-**	**C**	**X**	**1990**
107-30-2	**Methane, chloromethoxy-**	**C**	**X**	**1990**
624-83-9	**Methane, isocyanato-**	**C**	**X**	
542-88-1	**Methane, oxybis[chloro-**	**C**	**X**	**1990**
509-14-8	**Methane, tetranitro-**	**C**		**1992**
67-66-3	**Methane, trichloro-**	**C**	**X**	**1990**
594-42-3	**Methanesulfenyl chloride, trichloro-**	**C**		**1992**
74-93-1	**Methanethiol**	**C**	**X**	**1991**
17702-57-7	**Methanimidamide, N,N-dimethyl-N-[2-methyl-4-[[(methylaino)carbonyl]oxy]phenol]-(Formparanate)**	**C**		
23422-53-9	**Methanimidamide, N,N-dimethyl-N-[3-[[(methylamino)carbonyl]oxylphenyl]-,monohydrochioride (formetanate hydrochloride)**	**C**		
67-56-1	**Methanol**	**C**	**313**	**1990**
57-74-9	**4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-**	**C**	**X**	**1990**

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	2,3,3a,4,7,7a-hexahydro-			
91-80-5	Methapyrilene	C		1991
20354-26-1	Methazole		313	1995
2032-65-7	Methiocarb	C	313	1992
16752-77-5	Methomyl	C		1993
94-74-6	Methoxone		313	1995
3653-48-3	Methoxone sodium salt		313	1995
72-43-5	Methoxychlor	C	313	1990
109-86-4	2-Methoxyethanol		313	1990
101200-48-0	2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl)-, methyl ester		X	1995
96-33-3	Methyl acrylate		313	1990
74-83-9	Methyl bromide	C	X	1990
56-49-5	3-Methylcholanthrene	C	*	1991
74-87-3	Methyl chloride	C	X	1990
79-22-1	Methyl chlorocarbonate	C	313	1991
71-55-6	Methyl chloroform	C	X	1990
79-22-1	methyl chloroformate	C	X	1991
3697-24-3	5-Methylchrysene		313 *	1995
75790-84-0	4-Methyldiphenylmethane-3,4-diisocyanate		313 *	1995
2439-01-2	6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one		X	1995
101-14-4	4,4'-Methylenebis(2-chloroaniline)	C	313	1990
97-23-4	2,2'-Methylenebis(4-chlorophenol)		X	1995
101-61-1	4,4'-Methylenebis(N,N-dimethyl)benzenamine		313	1990
101-77-9	4,4'-Methylenedianiline	C	313	1990
78-93-3	Methyl ethyl ketone (MEK)	C		1990
1338-23-4	Methyl ethyl ketone peroxide	C		1992
60-34-4	Methyl hydrazine	C	313	1990
74-88-4	Methyl iodide	C	313	1990
108-10-1	Methyl isobutyl ketone	C	313	1990
624-83-9	Methyl isocyanate	C	313	1990
556-61-6	Methyl isothiocyanate		313	1995
75-86-5	2-Methyllactonitrile	C	313	1991
74-93-1	Methyl mercaptan	C	313	1991
80-62-6	Methyl methacrylate	C	313	1990
298-00-0	Methyl parathion	C	313	1992
109-06-8	2-Methylpyridine	C	313	1991
1634-04-4	Methyl tert-butyl ether	C	313	1990
5124-30-1	1,1'-Methylene bis(4-isocyanatocyclohexane)		313 *	1995
74-95-3	Methylene bromide	C	313	1990
75-09-2	Methylene chloride	C	X	1990
56-04-2	Methylthiouracil	C		1991
9006-42-2	Metiram		313	1995
21087-64-9	Metribuzin		313	1995
7786-34-7	Mevinphos	C	313	1993
315-18-4	Mexacarbate	C		1992
90-94-8	Michler's ketone		313	1990
50-07-7	Mitomycin C	C		1991

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554-84-7	m-Nitrophenol	C		1992
99-08-1	m-Nitrotoluene	C		1991
2212-67-1	Molinate		313	1995
1313-27-5	Molybdenum trioxide		313	1990
76-15-3	Monochloropentafluoroethane		313	1991
75-04-7	Monoethylamine	C		1991
74-89-5	Monomethylamine	C		1991
150-68-5	Monuron		313	1995
2763-96-4	Muscimol	C		1992
505-60-2	Mustard gas		313	1990
108-38-3	m-Xylene	C	313	1990
88671-89-0	Myclobutanil		313	1995
40487-42-1	N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine		X	1995
69409-94-5	N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+)-cyano(3-phenoxyphenyl)methyl ester		X	1995
709-98-8	N-(3,4-Dichlorophenyl)propanamide		X	1995
34014-18-1	N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea		X	1995
26644-46-2	N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide		X	1995
7287-19-6	N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine		X	1995
91-66-7	N,N-Diethylaniline	C		
91-66-7	N,N-Diethylaniline	C		
121-69-7	N,N-Dimethylaniline	C	313	1990
68-12-2	N,N-Dimethylformamide	C	313	1995
142-59-6	Nabam		313	1995
300-76-5	Naled	C	313	1992
91-20-3	Naphthalene	C	313	1990
3173-72-6	1,5-Naphthalene diisocyanate		313 *	1995
1338-24-5	Naphthenic acid	C		1992
63-25-2	1-Naphthalenol, methylcarbamate	C	X	1990
130-15-4	1,4-Naphthoquinone	C		1991
71-36-3	n-Butyl alcohol	C	313	1990
84-74-2	n-Butyl phthalate	C	X	1990
1861-40-1	N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine		X	1995
117-84-0	n-Dioctylphthalate	C		1990
834-12-8	N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine		X	1995
110-54-3	n-Hexane	C	313	1995
7440-02-0	Nickel	C	313	1990
15699-18-0	Nickel ammonium sulfate	C	*	1993
13463-39-3	Nickel carbonyl	C	*	1993
7718-54-9	Nickel chloride	C	*	1993
37211-05-5	Nickel chloride	C	*	1993
1029	Nickel Compounds	C	313	
557-19-7	Nickel cyanide	C	*	1992

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12054-48-7	**Nickel hydroxide**	**C**	*****	**1993**
14216-75-2	**Nickel nitrate**	**C**	*****	**1993**
7786-81-4	**Nickel sulfate**	**C**	*****	**1993**
54-11-5	**Nicotine**	**C**	*****	**1991**
1055	**Nicotine and salts**		**313**	
1929-82-4	**Nitrapyrin**		**313**	**1995**
1090	**Nitrate compounds (water dissociable)**		**313**	
7697-37-2	**Nitric acid**	**C**	**313**	**1990**
7697-37-2	**Nitric acid (conc 80% or greater)**	**C**	**X**	**1990**
10102-43-9	**Nitric oxide**	**C**		**1993**
139-13-9	**Nitrilotriacetic acid**		**313**	**1990**
98-95-3	**Nitrobenzene**	**C**	**313**	**1990**
92-93-3	**4-Nitrobiphenyl**	**C**	**313**	**1990**
1836-75-5	**Nitrofen**		**313**	**1990**
10102-44-0	**Nitrogen dioxide**	**C**		**1993**
10544-72-6	**Nitrogen dioxide**	**C**		**1993**
51-75-2	**Nitrogen mustard**		**313**	**1990**
10102-43-9	**Nitrogen oxide (NO)**	**C**		**1993**
55-63-0	**Nitroglycerin**	**C**	**313**	**1990**
25154-55-6	**Nitrophenol (mixed isomers)**	**C**		**1993**
1030	**Nitrophenols**	**C**		
88-75-5	**2-Nitrophenol**	**C**	**313**	**1990**
79-46-9	**2-Nitropropane**	**C**	**313**	**1990**
5522-43-0	**1-Nitropyrene**		**313 ***	**1995**
1031	**Nitrosamines**	**C**		
62-75-9	**Nitrosodimethylamine**	**C**	**X**	**1990**
1321-12-6	**Nitrotoluene**	**C**		**1992**
872-50-4	**N-Methyl-2-pyrrolidone**		**313**	**1995**
924-42-5	**N-Methylolacrylamide**		**313**	**1995**
99-59-2	**5-Nitro-o-anisidine**		**313**	**1990**
99-55-8	**5-Nitro-o-toluidine**	**C**	**313**	**1991**
100-02-7	**4-Nitrophenol**	**C**	**313**	**1990**
1116-54-7	**N-Nitrosodiethanolamine**	**C**		**1992**
55-18-5	**N-Nitrosodiethylamine**	**C**	**313**	**1990**
62-75-9	**N-Nitrosodimethylamine**	**C**	**313**	**1990**
924-16-3	**N-Nitrosodi-n-butylamine**	**C**	**313**	**1990**
621-64-7	**N-Nitrosodi-n-propylamine**	**C**	**313**	**1990**
86-30-6	**N-Nitrosodiphenylamine**	**C**	**313**	**1990**
4549-40-0	**N-Nitrosomethylvinylamine**	**C**	**313**	**1990**
59-89-2	**N-Nitrosomorpholine**	**C**	**313**	**1990**
759-73-9	**N-Nitroso-N-ethylurea**	**C**	**313**	**1990**
684-93-5	**N-Nitroso-N-methylurea**	**C**	**313**	**1990**
615-53-2	**N-Nitroso-N-methylurethane**	**C**		**1992**
16543-55-8	**N-Nitrosonornicotine**		**313**	**1990**
100-75-4	**N-Nitrosopiperidine**	**C**	**313**	**1990**
930-55-2	**N-Nitrosopyrrolidine**	**C**		**1992**
27314-13-2	**Norflurazon**		**313**	**1995**
107-10-8	**n-Propylamine**	**C**		**1991**
29232-93-7	**O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate**		**X**	**1995**
41198-08-7	**O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate**		**X**	**1995**
297-97-2	**O,O-Diethyl O-pyrazinyl**	**C**		**1992**

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	phosphorothioate			
3288-58-2	O,O-Diethyl S-methyl dithiophosphate	C		1992
55-38-9	O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid		X	1995
5598-13-0	O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate		X	1995
90-04-0	o-Anisidine	C	313	1990
134-29-2	o-Anisidine hydrochloride		313	1990
95-48-7	o-Cresol	C	313	1990
2234-13-1	Octachloronaphthalene		313	1990
29082-74-4	Octachlorostyrene			
1689-99-2	Octanoic acid, 2,6-dibromo-4-cyanophenyl ester		X	1995
20325-40-0	o-Dianisidine dihydrochloride		X	1995
111984-09-9	o-Dianisidine hydrochloride		X	1995
95-50-1	o-Dichlorobenzene	C	X	1990
528-29-0	o-Dinitrobenzene	C	313	1990
35400-43-2	O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester		X	1995
8014-95-7	Oleum (fuming sulfuric acid)	C		1993
88-72-2	o-Nitrotoluene	C		1991
19044-88-3	Oryzalin		313	1995
20816-12-0	Osmium oxide OsO4 (T-4)-	C	X	1990
20816-12-0	Osmium tetroxide	C	313	1990
119-93-7	o-Tolidine	C	X	1990
612-82-8	o-Tolidine dihydrochloride		X	1995
41766-75-0	o-Tolidine dihydrofluoride		X	1995
95-53-4	o-Toluidine	C	313	1990
636-21-5	o-Toluidine hydrochloride	C	313	1990
2164-07-0	7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt		X	1995
75-21-8	Oxirane	C	X	1990
106-89-8	Oxirane, (chloromethyl)-	C	X	1990
75-56-9	Oxirane, methyl-	C	X	1990
301-12-2	Oxydemeton methyl		313	1995
19666-30-9	Oxydiazon		313	1995
42874-03-3	Oxyfluorfen		313	1995
95-47-6	o-Xylene	C	313	1990
10028-15-6	Ozone		313	1995
104-94-9	p-Anisidine		313	1990
30525-89-4	Paraformaldehyde	C		1993
123-63-7	Paraldehyde	C	313	1991
1910-42-5	Paraquat dichloride		313	1995
56-38-2	Parathion	C	313	1990
298-00-0	Parathion-methyl	C	X	1992
12002-03-8	Paris green	C		1993
106-51-4	p-Benzoquinone	C	X	1990
1336-36-3	PCBs	C	X	1990
106-47-8	p-Chloroaniline	C	313	1991
59-50-7	p-Chloro-m-cresol	C		1991
95-69-2	p-Chloro-o-toluidine		313	1995
104-12-1	p-Chlorophenyl isocyanate		313	1995

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CAS	NAME	C	313	ADD
82-68-8	**PCNB**	**C**	**X**	**1990**
120-71-8	**p-Cresidine**		**313**	**1990**
106-44-5	**p-Cresol**	**C**	**313**	**1990**
87-86-5	**PCP**	**C**	**X**	**1990**
100-25-4	**p-Dinitrobenzene**	**C**	**313**	**1990**
1114-71-2	**Pebulate**		**313**	**1995**
40487-42-1	**Pendimethalin**		**313**	**1995**
608-93-5	**Pentachlorobenzene**	**C**		**1992**
76-01-7	**Pentachloroethane**	**C**	**313**	**1991**
82-68-8	**Pentachloronitrobenzene**	**C**	**X**	**1990**
87-86-5	**Pentachlorophenol**	**C**	**313**	**1990**
504-60-9	**1,3-Pentadiene**	**C**		**1992**
1120-71-4	***1,3-Propane sultone***	***C***	***X***	***1990***
57-33-0	**Pentobarbital sodium**		**313**	**1995**
79-21-0	**Peracetic acid**		**313**	**1990**
127-18-4	**Perchloroethylene**	**C**	**X**	**1990**
594-42-3	**Perchloromethyl mercaptan**	**C**	**313**	**1992**
52645-53-1	**Permethrin**		**313**	**1995**
62-44-2	**Phenacetin**	**C**		**1991**
85-01-8	**Phenanthrene**	**C**	**313**	**1991**
108-95-2	**Phenol**	**C**	**313**	**1990**
114-26-1	**Phenol, 2-(1-methylethoxy)-, methylcarbamate**	**C**	**X**	**1990**
64-00-6	**Phenol, 3-(1-methylethyl)-, methyl carbamate (m-Cumenyl methylcarbamate)**	**C**		
2631-37-0	**Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate (promecarb)**	**C**		
26002-80-2	**Phenothrin**		**313**	**1995**
72490-01-8	**(2-(4-Phenoxy-phenoxy)-ethyl)carbamic acid ethyl ester**		**X**	**1995**
696-28-6	**Phenyl dichloroarsine**	**C**		**1992**
23564-06-9	**(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester**		**X**	**1995**
95-54-5	**1,2-Phenylenediamine**		**313**	**1995**
108-45-2	**1,3-Phenylenediamine**		**313**	**1995**
615-28-1	**1,2-Phenylenediamine dihydrochloride**		**313**	**1995**
624-18-0	**1,4-Phenylenediamine dihydrochloride**		**313**	**1995**
123-61-5	**1,3-Phenylene diisocyanate**		**313 ***	**1995**
104-49-4	**1,4-Phenylene diisocyanate**		**313 ***	**1995**
62-38-4	**Phenylmercuric acetate**	**C**		**1991**
62-38-4	**Phenylmercury acetate**	**C**		**1991**
10453-86-8	**5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate**		**X**	**1995**
90-43-7	**2-Phenylphenol**		**313**	**1990**

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103-85-5	**Phenylthiourea**	**C**		**1991**
57-41-0	**Phenytoin**		**313**	**1995**
298-02-2	**Phorate**	**C**		**1992**
75-44-5	**Phosgene**	**C**	**313**	**1990**
7803-51-2	**Phosphine**	**C**	**313**	**1993**
52-68-6	**Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester**	**C**	**X**	**1990**
7664-38-2	**Phosphoric acid**	**C**		**1990**
961-11-5	**Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester**		**X**	**1990**
62-73-7	**Phosphoric acid, 2-dichloroethenyl dimethyl ester**	**C**	**X**	**1990**
13194-48-4	**Phosphorodithioic acid O-ethyl S,S-dipropyl ester**		**X**	**1995**
56-38-2	**Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester**	**C**	**X**	**1990**
7719-12-2	**Phosphorous trichloride**	**C**		**1993**
7723-14-0	**Phosphorus**	**C**		**1993**
7723-14-0	**Phosphorus (yellow or white)**	**C**	**313**	**1990**
10025-87-3	**Phosphorus oxychloride**	**C**		**1993**
7719-12-2	**Phosphorus trichloride**	**C**		**1993**
10025-87-3	**Phosphoryl chloride**	**C**		**1993**
1033	**Phthalate Esters**	**C**		
85-44-9	**Phthalic anhydride**	**C**	**313**	**1990**
1918-02-1	**Picloram**		**313**	**1995**
109-06-8	**2-Picoline**	**C**	**X**	**1991**
88-89-1	**Picric acid**		**313**	**1990**
120-54-7	**Piperidine, 1,1-(tetrathiodicarbonothioyl)-bis-(Bis(pentamenthylene)thiuram tetrasulfide)**	**C**		
51-03-6	**Piperonyl butoxide**		**313**	**1995**
29232-93-7	**Pirimiphos methyl**		**313**	**1995**
100-01-6	**p-Nitroaniline**	**C**	**313**	**1991**
100-02-7	**p-Nitrophenol**	**C**	**X**	**1990**
156-10-5	**p-Nitrosodiphenylamine**		**313**	**1990**
99-99-0	**p-Nitrotoluene**	**C**		**1991**
1034	**Polybrominated Biphenyls (PBBs)**		**N575**	
1045	**Polychlorinated alkanes (C10 to C13)**		**N583**	
1336-36-3	**Polychlorinated biphenyls**	**C**	**313**	**1990**
1040	**Polycyclic aromatic compounds (includes only 21 chemicals)**		**N590**	
	Polycyclic organic matter	**C**		
	Polycyclic Organic Matter (e)	**C**		
9016-87-9	**Polymeric diphenylmethane diisocyanate**		**313***	**1995**
1035	**Polynuclear Aromatic Hydrocarbons**	**C**		
7784-41-0	**Potassium arsenate**	**C**	*****	**1993**
10124-50-2	**Potassium arsenite**	**C**	*****	**1993**
7778-50-9	**Potassium bichromate**	**C**	*****	**1993**
7758-01-2	**Potassium bromate**		**313**	**1995**
7789-00-6	**Potassium chromate**	**C**	*****	**1993**

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151-50-8	**Potassium cyanide**	**C**	*****	**1991**
128-03-0	**Potassium dimethyldithiocarbamate**		**313**	**1995**
1310-58-3	**Potassium hydroxide**	**C**		**1992**
137-41-7	**Potassium N-methyldithiocarbamate**		**313**	**1995**
7722-64-7	**Potassium permanganate**	**C**	*****	**1993**
506-61-6	**Potassium silver cyanide**	**C**	*****	**1992**
106-50-3	**p-Phenylenediamine**	**C**	**313**	**1990**
41198-08-7	**Profenofos**		**313**	**1995**
7287-19-6	**Prometryn**		**313**	**1995**
23950-58-5	**Pronamide**	**C**	**313**	**1993**
1918-16-7	**Propachlor**		**313**	**1995**
1646-88-4	**Propanal, 2-methyl-2-(methylsulfonyl)-,[(methylamino)carbonyl] oxime (Aldicarb sulfone)**	**C**		
78-87-5	**Propane 1,2-dichloro-**	**C**	**X**	**1990**
1120-71-4	**Propane sultone**	**C**	**313**	**1990**
107-12-0	**Propanenitrile**	**C**		**1991**
709-98-8	**Propanil**		**313**	**1995**
2312-35-8	**Propargite**	**C**	**313**	**1992**
107-19-7	**Propargyl alcohol**	**C**	**313**	**1991**
107-02-8	**2-Propenal**	**C**	**X**	**1990**
107-11-9	**2-Propen-1-amine**		**X**	
115-07-1	**Propene**		**X**	**1990**
115-07-1	**1-Propene**		**X**	**1990**
107-13-1	**2-Propenenitrile**	**C**	**X**	**1990**
126-98-7	**2-Propenenitrile, 2-methyl-**	**C**	**X**	**1991**
107-18-6	**2-Propen-1-ol**	**C**	**X**	**1990**
31218-83-4	**Propetamphos**		**313**	**1995**
60207-90-1	**Propiconazole**		**313**	**1995**
123-38-6	**Propionaldehyde**	**C**	**313**	**1990**
79-09-4	**Propionic acid**	**C**		**1991**
123-62-6	**Propionic anhydride**	**C**		**1991**
107-12-0	**Propionitrile**	**C**		**1991**
542-76-7	**Propionitrile, 3-chloro-**	**C**	**X**	**1992**
114-26-1	**Propoxur**	**C**	**313**	**1990**
115-07-1	**Propylene**		**313**	**1990**
75-56-9	**Propylene oxide**	**C**	**313**	**1990**
75-55-8	**Propyleneimine**	**C**	**313**	**1990**
106-49-0	**p-Toluidine**	**C**		**1991**
106-42-3	**p-Xylene**	**C**	**313**	**1990**
129-00-0	**Pyrene**	**C**		**1991**
121-21-1	**Pyrethrins**	**C**		**1991**
121-29-9	**Pyrethrins**	**C**		**1991**
8003-34-7	**Pyrethrins**	**C**		**1993**
110-86-1	**Pyridine**	**C**	**313**	**1990**
54-11-5	**Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-**	**C**		**1991**
504-24-5	**Pyridine, 4-amino-**	**C**		**1992**
57-47-6	**Pyrrolo[2,3-b] indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-(Physostigmine)**	**C**		
91-22-5	**Quinoline**	**C**	**313**	**1990**

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CAS	NAME	C	313	ADD
106-51-4	Quinone	C	313	1990
82-68-8	Quintozene	C	313	1990
76578-14-8	Quizalofop-ethyl		313	1995
50-55-5	Reserpine	C		1991
10453-86-8	Resmethrin		313	1995
108-46-3	Resorcinol	C		1991
301-12-2	S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid		X	1995
78-48-8	S,S,S-Tributyltrithiophosphate		313	1995
81-07-2	Saccharin (manufacturing)	C	313	1991
81-07-2	Saccharin and salts	C		1990
94-59-7	Safrole	C	313	1990
626-38-0	sec-Amyl acetate	C		1992
105-46-4	sec-Butyl acetate	C		1991
78-92-2	sec-Butyl alcohol		313	1990
513-49-5	sec-Butylamine	C		1992
13952-84-6	sec-Butylamine	C		1993
7783-00-8	Selenious acid	C	*	1993
12039-52-0	Selenious acid, dithallium(1+) salt	C	*	1993
7782-49-2	Selenium	C	313	1990
1036	Selenium Compounds	C	313	
7446-08-4	Selenium dioxide	C	*	1992
7488-56-4	Selenium sulfide	C	*	1992
630-10-4	Selenourea	C	*	1992
74051-80-2	Sethoxydim		313	1995
75-77-4	Silane, chlorotrimethyl-		X	1995
75-78-5	Silane, dichlorodimethyl-		X	1995
75-79-6	Silane, trichloromethyl-		X	1995
1095	Silica, crystalline (respirable, < 10 microns)			2002
7440-22-4	Silver – file to EPA ONLY		313	1990
1037	Silver Compounds	C	313	
506-64-9	Silver cyanide	C	*	1992
7761-88-8	Silver nitrate	C	*	1993
93-72-1	Silvex (2,4,5-TP)	C		1991
122-34-9	Simazine		313	1995
7440-23-5	Sodium	C		1992
7631-89-2	Sodium arsenate	C	*	1993
7784-46-5	Sodium arsenite	C	*	1993
26628-22-8	Sodium azide (Na(N3))	C	313	1993
10588-01-9	Sodium bichromate	C	*	1993
1333-83-1	Sodium bifluoride	C		1992
7631-90-5	Sodium bisulfite	C		1993
2146-10-8	Sodium chromate	C	*	1993
143-33-9	Sodium cyanide (Na(CN))	C	*	1991
1982-69-0	Sodium dicamba		313	1995
128-04-1	Sodium dimethyldithiocarbamate		313	1995
25155-30-0	Sodium dodecylbenzenesulfonate	C		1993
7681-49-4	Sodium fluoride	C		1993
62-74-8	Sodium fluoroacetate	C	313	1991
16721-80-5	Sodium hydrosulfide	C		1993
1310-73-2	Sodium hydroxide	C		1992
7681-52-9	Sodium hypochlorite	C		1993
10022-70-5	Sodium hypochlorite	C		1993

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124-41-4	**Sodium methylate**	**C**		**1991**
137-42-8	**Sodium methyldithiocarbamate**		**X**	**1995**
7632-00-0	**Sodium nitrite**	**C**	**313**	**1993**
132-27-4	**Sodium o-phenylphenoxide**		**313**	**1995**
131-52-2	**Sodium pentachlorophenate**		**313**	**1995**
7558-79-4	**Sodium phosphate, dibasic**	**C**		**1992**
10039-32-4	**Sodium phosphate, dibasic**	**C**		**1993**
10140-65-5	**Sodium phosphate, dibasic**	**C**		**1993**
7601-54-9	**Sodium phosphate, tribasic**	**C**		**1993**
7758-29-4	**Sodium phosphate, tribasic**	**C**		**1993**
7785-84-4	**Sodium phosphate, tribasic**	**C**		**1993**
10101-89-0	**Sodium phosphate, tribasic**	**C**		**1993**
10124-56-8	**Sodium phosphate, tribasic**	**C**		**1993**
10361-89-4	**Sodium phosphate, tribasic**	**C**		**1993**
7782-82-3	**Sodium selenite**	**C**	*****	**1993**
10102-18-8	**Sodium selenite**	**C**	*****	**1993**
2151-06-8	**Strontium chromate**	**C**	*****	**1993**
57-24-9	**Strychnine**	**C**	*****	**1991**
1070	**Strychnine and salts**		**313**	
100-42-5	**Styrene**	**C**	**313**	**1990**
96-09-3	**Styrene oxide**	**C**	**313**	**1990**
3689-24-5	**Sulfotep**	**C**		**1992**
12771-08-3	**Sulfur monochloride**	**C**		**1993**
1314-80-3	**Sulfur phosphide**	**C**		**1992**
7664-93-9	**Sulfuric acid**	**C**		**1995**
8014-95-7	**Sulfuric acid (fuming)**	**C**		**1993**
8014-95-7	**Sulfuric acid, mixture with sulfur trioxide**	**C**		**1993**
2699-79-8	**Sulfuryl fluoride**		**313**	**1995**
35400-43-2	**Sulprofos**		**313**	**1995**
93-76-5	**2,4,5-T acid**	**C**		**1991**
1319-72-8	**2,4,5-T amines**	**C**		**1992**
2008-46-0	**2,4,5-T amines**	**C**		**1992**
3813-14-7	**2,4,5-T amines**	**C**		**1992**
6369-96-6	**2,4,5-T amines**	**C**		**1992**
6369-97-7	**2,4,5-T amines**	**C**		**1992**
34014-18-1	**Tebuthiuron**		**313**	**1995**
3383-96-8	**Temephos**		**313**	**1995**
107-49-3	**Tepp**	**C**		**1991**
5902-51-2	**Terbacil**		**313**	**1995**
625-16-1	**tert-Amyl acetate**	**C**		**1992**
540-88-5	**tert-Butyl acetate**	**C**		**1992**
75-65-0	**tert-Butyl alcohol**		**313**	**1990**
75-64-9	**tert-Butylamine**	**C**		**1991**
93-79-8	**2,4,5-T esters**	**C**		**1991**
1928-47-8	**2,4,5-T esters**	**C**		**1992**
2545-59-7	**2,4,5-T esters**	**C**		**1992**
25168-15-4	**2,4,5-T esters**	**C**		**1993**
61792-07-2	**2,4,5-T esters**	**C**		**1993**
79-94-7	**Tetrabromobisphenol A**		**313**	
95-94-3	**1,2,4,5-Tetrachlorobenzene**	**C**		**1991**
1746-01-6	**2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)**	**C**		**1992**
630-20-6	**1,1,1,2-Tetrachloroethane**	**C**	**313**	**1992**
79-34-5	**1,1,2,2-Tetrachloroethane**	**C**	**313**	**1990**

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127-18-4	**Tetrachloroethylene**	**C**	**313**	**1990**
354-14-3	**1,1,2,2-Tetrachloro-1-fluoroethane**		**313**	**1995**
354-11-0	**1,1,1,2-Tetrachloro-2-fluoroethane**		**313**	**1995**
58-90-2	**2,3,4,6-Tetrachlorophenol**	**C**	*****	**1991**
961-11-5	**Tetrachlorvinphos**		**313**	**1990**
64-75-5	**Tetracycline hydrochloride**		**313**	**1995**
78-00-2	**Tetraethyl lead**	**C**		**1991**
107-49-3	**Tetraethyl pyrophosphate**	**C**		**1991**
3689-24-5	**Tetraethyldithiopyrophosphate**	**C**		**1992**
533-74-4	**Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione**		**X**	**1995**
53404-60-7	**Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium**		**X**	**1995**
67485-29-4	**Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone**	**X**	**1995**	
7696-12-0	**Tetramethrin**		**313**	**1995**
39515-41-8	**2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester**		**X**	**1995**
509-14-8	**Tetranitromethane**	**C**		**1992**
1314-32-5	**Thallic oxide**	**C**	*****	**1992**
7440-28-0	**Thallium**	**C**	**313**	**1990**
7791-12-0	**Thallium chloride TlCl**	**C**	*****	**1993**
1038	**Thallium Compounds**	**C**	**313**	
10031-59-1	**Thallium sulfate**	**C**	*****	**1993**
563-68-8	**Thallium(I) acetate**	**C**	*****	**1992**
6533-73-9	**Thallium(I) carbonate**	**C**	*****	**1992**
10102-45-1	**Thallium(I) nitrate**	**C**	*****	**1993**
7446-18-6	**Thallium(I) sulfate**	**C**	*****	**1992**
6533-73-9	**Thallous carbonate**	**C**	*****	**1992**
7791-12-0	**Thallous chloride**	**C**	*****	**1993**
7446-18-6	**Thallous sulfate**	**C**	*****	**1992**
148-79-8	**Thiabendazole**		**313**	**1995**
148-79-8	**2-(4-Thiazolyl)-1H-benzimidazole**		**X**	**1995**
62-55-5	**Thioacetamide**	**C**	**313**	**1990**
28249-77-6	**Thiobencarb**		**313**	**1995**
139-65-1	**4,4'-Thiodianiline**		**313**	**1990**
59669-26-0	**Thiodicarb**		**313**	**1995**
39196-18-4	**Thiofanox**	**C**		**1993**
74-93-1	**Thiomethanol**	**C**	**X**	**1991**
297-97-2	**Thionazin**	**C**		**1992**
1634-02-2	**Thioperoxydicarbonic diamid, tetrabutyl (tetrabutylthiuram disulfide)**	**C**		
97-77-8	**Thioperoxydicarbonic diamide,tetraethyl (Disulfiram)**	**C**		
23564-06-9	**Thiophanate ethyl**		**313**	
23564-05-8	**Thiophanate-methyl**		**313**	**1995**
108-98-5	**Thiophenol**	**C**		**1991**
79-19-6	**Thiosemicarbazide**	**C**	**313**	**1991**

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CAS	NAME	C	313	ADD
62-56-6	**Thiourea**	**C**	**313**	**1990**
5344-82-1	**Thiourea, (2-chlorophenyl)-**	**C**	*****	**1992**
86-88-4	**Thiourea, 1-naphthalenyl-**	**C**		**1991**
137-26-8	**Thiram**	**C**	**313**	**1991**
1314-20-1	**Thorium dioxide**		**313**	**1990**
7550-45-0	**Titanium chloride (TiCl4) (T-4)-**	**C**	**X**	**1990**
7550-45-0	**Titanium tetrachloride**	**C**	**313**	**1990**
108-88-3	**Toluene**	**C**	**313**	**1990**
26471-62-5	**Toluene diisocyanate (unspecified isomer)**	**C**	**X**	
584-84-9	**Toluene-2,4-diisocyanate**	**C**	**313**	**1990**
91-08-7	**Toluene-2,6-diisocyanate**	**C**	**313**	**1990**
25376-45-8	**Toluenediamine**	**C**	**X**	**1990**
26471-62-5	**Toluenediisocyanate (mixed isomers)**	**C**	**313**	**1990**
8001-35-2	**Toxaphene**	**C**	**313**	**1990**
32534-95-5	**2,4,5-TP esters**	**C**		**1993**
10061-02-6	**trans-1,3-Dichloropropene**		**313**	**1995**
110-57-6	**trans-1,4-Dichloro-2-butene**		**313**	**1995**
110-57-6	**trans-1,4-Dichlorobutene**		**X**	**1995**
43121-43-3	**Triadimefon**		**313**	**1995**
2303-17-5	**Triallate**		**313**	**1995**
68-76-8	**Triaziquone**		**313**	**1990**
101200-48-0	**Tribenuron methyl**		**313**	**1995**
75-25-2	**Tribromomethane**	**C**	**X**	**1990**
1983-10-4	**Tributyltin fluoride**		**313**	**1995**
2155-70-6	**Tributyltin methacrylate**		**313**	**1995**
52-68-6	**Trichlorfon**	**C**	**313**	**1990**
76-02-8	**Trichloroacetyl chloride**		**313**	**1995**
120-82-1	**1,2,4-Trichlorobenzene**	**C**	**313**	**1990**
71-55-6	**1,1,1-Trichloroethane**	**C**	**313**	**1990**
79-00-5	**1,1,2-Trichloroethane**	**C**	**313**	**1990**
79-01-6	**Trichloroethylene**	**C**	**313**	**1990**
75-69-4	**Trichlorofluoromethane**	**C**	**313**	**1991**
594-42-3	**Trichloromethanesulfenyl chloride**	**C**	**X**	**1992**
75-69-4	**Trichloromonofluoromethane**	**C**	**X**	**1991**
25167-82-2	**Trichlorophenol**	**C**	*****	
933-75-5	**2,3,6-Trichlorophenol**	**C**	*****	**1992**
95-95-4	**2,4,5-Trichlorophenol**	**C**	**313**	**1990**
88-06-2	**2,4,6-Trichlorophenol**	**C**	**313**	**1990**
609-19-8	**3,4,5-Trichlorophenol**	**C**	*****	**1992**
15950-66-0	**2,3,4-Trichlorophenol**	**C**	*****	**1993**
933-78-8	**2,3,5-Trichlorophenol**	**C**	*****	**1992**
96-18-4	**1,2,3-Trichloropropane**		**313**	**1995**
57213-69-1	**Triclopyr triethylammonium salt**		**313**	**1995**
27323-41-7	**Triethanolamine dodecylbenzene sulfonate**	**C**		**1993**
121-44-8	**Triethylamine**	**C**	**313**	**1991**
69806-50-4	**2-(4-(5-(Trifluoromethyl)-2-pyridinyl]oxy]-phenoxy)propanoic acid, butyl ester**		**X**	**1995**
1582-09-8	**Trifluralin**	**C**	**313**	**1990**
26644-46-2	**Triforine**		**313**	**1995**
75-50-3	**Trimethylamine**	**C**		**1991**

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CAS	NAME	C	313	ADD
95-63-6	1,2,4-Trimethylbenzene		313	1990
16938-22-0	2,2,4-Trimethylhexamethylene diisocyanate		313 *	1995
15646-96-5	2,4,4-Trimethylhexamethylene diisocyanate		313 *	1995
540-84-1	2,2,4-Trimethylpentane	C		
540-84-1	2,2,4-Trimethylpentane	C		
2655-15-4	2,3,5-Trimethylphenyl methylcarbamate		313	1995
99-35-4	1,3,5-Trinitrobenzene	C		1991
639-58-7	Triphenyltin chloride		313	1995
76-87-9	Triphenyltin hydroxide		313	1995
126-72-7	Tris(2,3-dibromopropyl) phosphate	C	313	1990
14484-64-1	Tris(dimethylcarbamodithioato-S,S')iron		X	1995
72-57-1	Trypan blue	C	313	1991
13560-99-1	2,4,5-T salts	C		1993
66-75-1	Uracil mustard	C		1991
541-09-3	Uranyl acetate	C		1992
10102-06-4	Uranyl nitrate	C	*	1993
36478-76-9	Uranyl nitrate	C	*	1993
2164-17-2	Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-		X	
51-79-6	Urethane	C	313	1990
7440-62-2	Vanadium (except when in alloy)		313	1990
1314-62-1	Vanadium pentoxide	C		1992
1065	Vanadium Compounds		313	
			0	
27774-13-6	Vanadyl sulfate	C		1993
2699-79-8	Vikane		X	1995
50471-44-8	Vinclozolin		313	1995
108-05-4	Vinyl acetate	C	313	1990
108-05-4	Vinyl acetate monomer	C	X	1990
593-60-2	Vinyl bromide	C	313	1990
75-01-4	Vinyl chloride	C	313	1990
75-35-4	Vinylidene chloride	C	313	1990
81-81-2	Warfarin	C	X*	1991
1075	Warfarin and salts		313	
81-81-2	Warfarin, & salts, conc.>0.3%	C	X*	1991
1330-20-7	Xylene (mixed isomers)	C	313	1990
1300-71-6	Xylenol	C		1992
87-62-7	2,6-Xylidine		313	1990
7440-66-6	Zinc (fume or dust)	C	313	1990
557-34-6	Zinc acetate	C	*	1992
14639-97-5	Zinc ammonium chloride	C	*	1993
14639-98-6	Zinc ammonium chloride	C	*	1993
52628-25-8	Zinc ammonium chloride	C	*	1993
1332-07-6	Zinc borate	C	*	1992
7699-45-8	Zinc bromide	C	*	1993
3486-35-9	Zinc carbonate	C	*	1992
7646-85-7	Zinc chloride	C	*	1993
1039	Zinc Compounds	C	313	
557-21-1	Zinc cyanide	C	*	1992
7783-49-5	Zinc fluoride	C	*	1993
557-41-5	Zinc formate	C	*	1992

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7779-86-4	**Zinc hydrosulfite**	C	*	1993
7779-88-6	**Zinc nitrate**	C	*	1993
127-82-2	**Zinc phenolsulfonate**	C	*	1991
1314-84-7	**Zinc phosphide**	C		1992
1314-84-7	**Zinc phosphide (conc. <= 10%)**	C		1992
1314-84-7	**Zinc phosphide (conc. > 10%)**	C		1992
16871-71-9	**Zinc silicofluoride**	C	*	1993
7733-02-0	**Zinc sulfate**	C		1993
14324-55-1	**Zinc, bis(diethylcarbamodithioato-S,S)-**	C	*	
	(ethyl ziram)			
137-30-4	**Zinc, bis(dimetylcarbomodithioato-S,S)-, (ziram)**	C	*	
12122-67-7	**Zineb**		313	1990
13746-89-9	**Zirconium nitrate**	C	*	1993
16923-95-8	**Zirconium potassium fluoride**	C		1993
14644-61-2	**Zirconium sulfate**	C		1993
10026-11-6	**Zirconium tetrachloride**	C		1993

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CAS	NAME	C	313	ADD
1000	Antimony Compounds	C	313	
1001	Arsenic Compounds	C	313	
1002	Barium Compounds		313	
1003	Beryllium Compounds	C	313	
1004	Cadmium Compounds	C	313	
1005	Chlordane (Technical Mixture and Metabolites)	C		
1006	Chlorinated Benzenes	C		
1007	Chlorinated Ethanes	C		
1008	Chlorinated Naphthalene	C		
1011	Chloroalkyl Ethers	C		
1009	Chlorophenols	C	313	
1012	Chromium Compounds	C	313	
1013	Cobalt Compounds	C	313	
1014	Coke Oven Emissions	C		
1015	Copper Compounds	C	313	
1016	Cyanide Compounds	C	313	
1017	DDT and Metabolites	C		
1018	Dichlorobenzidine	C		
1019	Diphenylhydrazine	C		
1020	Endosulfan and Metabolites	C		
1021	Endrin and Metabolites	C		
	Fine mineral fibers	C		
	Fine mineral fibers (c)	C		
1022	Glycol Ethers	C	313	
1023	Haloethers	C		
1024	Halomethanes	C		
	HCFC-141b	X		
1025	Heptachlor and Metabolites	C		
1026	Lead Compounds	C	313	
1027	Manganese Compounds	C	313	
1028	Mercury Compounds	C	313	
1029	Nickel Compounds	C	313	
1030	Nitrophenols	C		
1031	Nitrosamines	C		
1033	Phthalate Esters	C		
1034	Polybrominated Biphenyls (PBBs)		313	
1035	Polynuclear Aromatic Hydrocarbons	C		
1036	Selenium Compounds	C	313	
1037	Silver Compounds	C	313	
1038	Thallium Compounds	C	313	
1039	Zinc Compounds	C	313	
1040	Polycyclic aromatic compounds (includes only 21 chemicals)		313	
	Polycyclic organic matter	C		
	Polycyclic Organic Matter (e)	C		
1045	Polychlorinated alkanes (C10 to C13)		313	
1050	Diisocyanates (includes only 20 chemicals)		313	
1055	Nicotine and salts	C	313	1991
1060	Dioxin and Dioxin like Compounds		313	
1065	Vanadium Compounds		313	
1070	Strychnine, and salts	C	313	1991

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CAS	NAME	C	313	ADD
1075	Warfarin and salts		N874	
1090	Nitrate compounds (water dissociable)		N511	
1095	Silica, crystalline (respirable, < 10 microns)			2002
6-60-7	Picloram		313	1995
30-59-3	Tributyltin fluoride		313	1995
50-00-0	Formaldehyde	C	313	1990
50-00-0	Formaldehyde (solution)	C	X	
50-07-7	Mitomycin C	C		1991
50-18-0	Cyclophosphamide	C		1991
50-29-3	DDT	C		
50-32-8	Benzo[a]pyrene	C	313*	1991
50-55-5	Reserpine	C		1991
51-03-6	Piperonyl butoxide		313	1995
51-21-8	5-Fluorouracil		X	
51-21-8	Fluorouracil		313	1995
51-28-5	2,4-Dinitrophenol	C	313	1990
51-43-4	Epinephrine	C		1991
51-75-2	2-Chloro-N-(2-chloroethyl)-N-methylethanamine		X	1990
51-75-2	Mechlorethamine		X	1990
51-75-2	Nitrogen mustard		313	1990
51-79-6	Carbamic acid, ethyl ester	C	X	1990
51-79-6	Ethyl carbamate	C	X	1990
51-79-6	Urethane	C	313	
52-51-7	Bronopol		X	
52-68-6	Phosphonic acid, (2,2,2-trichloro-1-hydroxyethyl)-,dimethyl ester	C	X	
52-68-6	Trichlorfon	C	313	1990
52-85-7	Famphur	C	313	1991
53-70-3	Dibenz[a,h]anthracene	C	313*	1991
53-96-3	2-Acetylaminofluorene	C	313	1990
54-11-5	Nicotine	C	*	1991
54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-	C		1991
55-18-5	N-Nitrosodiethylamine	C	313	1990
55-21-0	Benzamide		313	1990
55-38-9	Fenthion		313	1995
55-38-9	O,O-Dimethyl O-(3-methyl-4-(methylthio) phenyl) ester, phosphorothioic acid		X	1995
55-63-0	Nitroglycerin	C	313	1990
55-91-4	Diisopropylfluorophosphate	C		1991
55-91-4	Isofluorphate	C		
56-04-2	Methylthiouracil	C		1991
56-23-5	Carbon tetrachloride	C	313	
56-35-9	Bis(tributyltin) oxide		313	1995
56-38-2	Parathion	C	313	1990
56-38-2	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester	C	X	1990
56-49-5	3-Methylcholanthrene	C	*	1991
56-53-1	Diethylstilbestrol	C		1991
56-55-3	Benz[a]anthracene	C	313*	
56-72-4	Coumaphos	C		1991

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CAS	NAME	C	313	ADD
57-12-5	Cyanides (soluble salts and complexes)	C	*	1991
57-14-7	1,1-Dimethyl hydrazine	C	313	1990
57-14-7	Dimethylhydrazine	C	X	1990
57-14-7	Hydrazine, 1,1-dimethyl-	C	X	1990
57-24-9	Strychnine	C	*	1991
57-33-0	Pentobarbital sodium		313	1995
57-41-0	Phenytoin		313	1995
57-47-6	Pyrrolo[2,3-b] indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1,3a,8-trimethyl-, methylcarbamate (ester), (3aS-cis)-(Physostigmine)	C		
57-57-8	beta-Propiolactone	C	313	1990
57-64-7	Benzoic Acid (Physostigminesalicylate)	C		
57-74-9	4,7-Methanoindan, 1,2,3,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-	C	X	
57-74-9	Chlordane	C	313	1990
57-97-6	7,12-Dimethylbenz[a]anthracene	C	313*	1991
58-89-9	Cyclohexane, 1,2,3,4,5,6-hexachloro-,(1.alpha.,2.alpha.,3.beta.,4.alpha.,5.alpha.,6.beta.)-	C	X	1990
58-89-9	Hexachlorocyclohexane (gamma isomer)	C	X	1990
58-89-9	Lindane	C	313	1990
58-90-2	2,3,4,6-Tetrachlorophenol	C	*	1991
59-50-7	p-Chloro-m-cresol	C		1991
59-89-2	N-Nitrosomorpholine	C	313	1990
60-00-4	Ethylenediamine-tetraacetic acid (EDTA)	C		1991
60-09-3	4-Aminoazobenzene		313	1990
60-11-7	4-Dimethylaminoazobenzene	C	313	1990
60-11-7	Dimethylaminoazobenzene	C	X	1990
60-29-7	Ethane, 1,1'-oxybis-	C		1991
60-29-7	Ethyl ether	C		1991
60-34-4	Hydrazine, methyl-	C	X	
60-34-4	Methyl hydrazine	C	313	1990
60-35-5	Acetamide	C	313	1990
60-51-5	Dimethoate	C	313	1991
60-57-1	Dieldrin	C		1991
61-82-5	Amitrole	C	313	1991
62-38-4	Phenylmercuric acetate	C		1991
62-38-4	Phenylmercury acetate	C		1991
62-44-2	Phenacetin	C		1991
62-50-0	Ethyl methanesulfonate	C		1991
62-53-3	Aniline	C	313	1990
62-55-5	Thioacetamide	C	313	1990
62-56-6	Thiourea	C	313	1990
62-73-7	Dichlorvos	C	313	1990
62-73-7	Phosphoric acid, 2-dichloroethenyl dimethyl ester	C	X	1990
62-74-8	Fluoroacetic acid, sodium salt	C	X	1991
62-74-8	Sodium fluoroacetate	C	313	1991

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62-75-9	Methanamine, N-methyl-N-nitroso-	C	X	1990
62-75-9	Nitrosodimethylamine	C	X	1990
62-75-9	N-Nitrosodimethylamine	C	313	1990
63-25-2	1-Naphthalenol, methylcarbamate	C	X	1990
63-25-2	Carbaryl	C	313	1990
64-00-6	Phenol, 3-(1-methylethyl)-, methyl carbamate (m-Cumenyl methylcarbamate)	C		
64-18-6	Formic acid	C	313	1991
64-19-7	Acetic acid (concentrations of 12% or less are NOT reportable)	C		1991
64-67-5	Diethyl sulfate	C	313	1990
64-75-5	Tetracycline hydrochloride		313	1995
65-85-0	Benzoic acid	C		1991
66-75-1	Uracil mustard	C		1991
67-56-1	Methanol	C	313	1990
67-63-0	Isopropyl alcohol (mfg-strong acid process)		313	1990
67-64-1	Acetone	C		
67-66-3	Chloroform	C	313	1990
67-66-3	Methane, trichloro-	C	X	1990
67-72-1	Hexachloroethane	C	313	1990
68-12-2	Dimethylformamide	C	X	
68-12-2	N,N-Dimethylformamide	C	313	1995
68-76-8	2,5-Cyclohexadiene-1,4-dione, 2,3,5-tris(1-aziridinyl)-		X	1990
68-76-8	Triaziquone		313	1990
70-25-7	Guanidine, N-methyl-N'-nitro-N-nitroso-	C		1991
70-30-4	Hexachlorophene	C	313	1991
71-36-3	n-Butyl alcohol	C	313	1990
71-43-2	Benzene	C		313
71-55-6	1,1,1-Trichloroethane	C		313
71-55-6	Methyl chloroform	C	X	1990
72-20-8	Endrin	C		1991
72-43-5	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis [4-methoxy-	C	X	1990
72-43-5	Methoxychlor	C	313	1990
72-54-8	DDD	C		1991
72-55-9	DDE	C		1991
72-57-1	Trypan blue	C	313	1991
74-83-9	Bromomethane	C	313	1990
74-83-9	Methyl bromide	C	X	1990
74-85-1	Ethene		X	1990
74-85-1	Ethylene		313	1990
74-87-3	Chloromethane	C	313	1990
74-87-3	Methane, chloro-	C	X	1990
74-87-3	Methyl chloride	C	X	1990
74-88-4	Methyl iodide	C	313	1990
74-89-5	Methanamine	C		1991
74-89-5	Monomethylamine	C		1991
74-90-8	Hydrocyanic acid	C	X	1990

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The Massachusetts Toxics Use Reduction Act, Reportable Chemical List for Calendar Year 2005
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CAS	NAME	C	313	ADD
74-90-8	Hydrogen cyanide	C	313	1990
74-93-1	Methanethiol	C	X	1991
74-93-1	Methyl mercaptan	C	313	1991
74-93-1	Thiomethanol	C	X	1991
74-95-3	Methylene bromide	C	313	1990
75-00-3	Chloroethane	C	313	1990
75-00-3	Ethane, chloro-	C	X	1990
75-00-3	Ethyl chloride	C	X	1990
75-01-4	Ethene, chloro-		X	1990
75-01-4	Vinyl chloride	C	313	1990
75-04-7	Ethanamine	C		1991
75-04-7	Monoethylamine	C		1991
75-05-8	Acetonitrile	C	313	1990
75-07-0	Acetaldehyde	C	313	
75-09-2	Dichloromethane	C	313	1990
75-09-2	Methylene chloride	C	X	1990
75-15-0	Carbon disulfide	C	313	1990
75-20-7	Calcium carbide	C		1991
75-21-8	Ethylene oxide	C	313	1990
75-21-8	Oxirane	C	X	1990
75-25-2	Bromoform	C	313	1990
75-25-2	Tribromomethane	C	X	1990
75-27-4	Dichlorobromomethane	C	313	1990
75-34-3	1,1-Dichloroethane	C	X	1991
75-34-3	Ethylidene Dichloride	C	313	1991
75-35-4	1,1-Dichloroethylene	C	X	1990
75-35-4	Ethene, 1,1-dichloro-	C	X	1990
75-35-4	Vinylidene chloride	C	313	1990
75-36-5	Acetyl chloride	C		1991
75-43-4	Dichlorofluoromethane		313	
75-43-4	HCFC-21		X	
75-44-5	Carbonic dichloride	C	X	1990
75-44-5	Phosgene	C	313	1990
75-45-6	Chlorodifluoromethane		313	
75-45-6	HCFC-22		X	
75-50-3	Methanamine, N,N-dimethyl-	C		1991
75-50-3	Trimethylamine	C		1991
75-55-8	Aziridine, 2-methyl	C	X	1990
75-55-8	Propyleneimine	C	313	
75-56-9	Oxirane, methyl-	C	X	1990
75-56-9	Propylene oxide	C	313	1990
75-60-5	Cacodylic acid	C		1991
75-63-8	Bromotrifluoromethane		313	1991
75-63-8	Halon 1301		X	1991
75-64-9	tert-Butylamine	C		1991
75-65-0	tert-Butyl alcohol		313	1990
75-68-3	1-Chloro-1,1-difluoroethane		313	
75-68-3	HCFC-142b		X	
75-69-4	CFC-11	C	X	
75-69-4	Trichlorofluoromethane	C	313	1991
75-69-4	Trichloromonofluoromethane	C	X	
75-71-8	CFC-12	C	X	
75-71-8	Dichlorodifluoromethane	C	313	
75-72-9	CFC-13		X	1995
75-72-9	Chlorotrifluoromethane		313	1995
75-77-4	Silane, chlorotrimethyl-		X	1995

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CAS	NAME	C	313	ADD
75-78-5	Silane, dichlorodimethyl-		X	1995
75-79-6	Silane, trichloromethyl-		X	1995
75-86-5	2-Methyllactonitrile	C	313	1991
75-86-5	Acetone cyanohydrin	C	X	
75-87-6	Acetaldehyde, trichloro-	C		
75-88-7	2-Chloro-1,1,1-trifluoroethane		313	1995
75-88-7	HCFC-133a		X	1995
75-99-0	2,2-Dichloropropionic acid	C		1991
76-01-7	Pentachloroethane	C	313	1991
76-02-8	Trichloroacetyl chloride		313	1995
76-06-2	Chloropicrin		313	1995
76-13-1	Ethane, 1,1,2-trichloro-1,2,2,-trifluoro-		X	1990
76-13-1	Freon 113		313	1990
76-14-2	CFC-114		X	1991
76-14-2	Dichlorotetrafluoroethane		313	1991
76-15-3	CFC-115		X	
76-15-3	Monochloropentafluoroethane		313	1991
76-44-8	1,4,5,6,7,8,8-Heptachloro-3a,4,7,7a-tetrahydro-4,7-methano-1H-indene	C	X	1990
76-44-8	Heptachlor	C	313	1990
76-87-9	Triphenyltin hydroxide		313	1995
77-47-4	Hexachlorocyclopentadiene	C	313	1990
77-73-6	Dicyclopentadiene		313	1995
77-78-1	Dimethyl sulfate	C	313	1990
78-00-2	Tetraethyl lead	C		1991
78-48-8	DEF		X	
78-48-8	S,S,S-Tributyltrithiophosphate		313	1995
78-59-1	Isophorone	C		
78-79-5	1,3-Butadiene, 2-methyl-	C		1991
78-79-5	Isoprene	C		1991
78-81-9	iso-Butylamine	C		1991
78-83-1	Isobutyl alcohol	C		
78-84-2	Isobutyraldehyde		313	1990
78-87-5	1,2-Dichloropropane	C	313	1990
78-87-5	Propane 1,2-dichloro-	C	X	1990
78-88-6	2,3-Dichloropropene	C	313	1990
78-92-2	sec-Butyl alcohol		313	1990
78-93-3	Methyl ethyl ketone	C	313	
78-93-3	Methyl ethyl ketone (MEK)	C	X	1990
78-99-9	1,1-Dichloropropane	C		1991
79-00-5	1,1,2-Trichloroethane	C	313	1990
79-01-6	Trichloroethylene	C	313	
79-06-1	Acrylamide	C	313	1990
79-09-4	Propionic acid	C		1991
79-10-7	Acrylic acid	C	313	1990
79-11-8	Chloroacetic acid	C	313	1990
79-19-6	Thiosemicarbazide	C	313	1991
79-21-0	Ethaneperoxoic acid		X	1990
79-21-0	Peracetic acid		313	1990
79-22-1	Carbonochloridic acid, methylester	C	X	1991
79-22-1	Methyl chlorocarbonate	C	313	1991
79-22-1	methyl chloroformate	C	X	1991
79-31-2	iso-Butyric acid	C		

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CAS	NAME	C	313	ADD
79-34-5	1,1,2,2-Tetrachloroethane	C	313	
79-44-7	Dimethylcarbamyl chloride	C	313	1990
79-46-9	2-Nitropropane	C	313	1990
79-94-7	Tetrabromobisphenol A		313	
80-05-7	4,4'-Isopropylidenediphenol		313	1990
80-15-9	Cumene hydroperoxide	C	313	1990
80-15-9	Hydroperoxide, 1-methyl-1-phenylethyl-	C	X	1990
80-62-6	Methyl methacrylate	C	313	1990
81-07-2	Saccharin (manufacturing)	C	313	1991
81-07-2	Saccharin and salts	C		
81-81-2	Warfarin	C	X*	1991
81-81-2	Warfarin, & salts, conc.>0.3%	C	N874	1991
81-88-9	C.I. Food Red 15		313	1990
82-28-0	1-Amino-2-methylanthraquinone		313	1990
82-68-8	PCNB	C	X	1990
82-68-8	Pentachloronitrobenzene	C	X	1990
82-68-8	Quintozene	C	313	1990
83-32-9	Acenaphthene	C		
84-66-2	Diethyl phthalate	C	313	
84-74-2	Dibutyl phthalate	C	313	1990
84-74-2	n-Butyl phthalate	C	X	1990
85-00-7	Diquat	C		1991
85-01-8	Phenanthrene	C	313	1991
85-44-9	Phthalic anhydride	C	313	1990
85-68-7	Butyl benzyl phthalate	C		1990
86-30-6	N-Nitrosodiphenylamine	C	313	1990
86-50-0	Azinphos-methyl	C		1991
86-50-0	Guthion	C		1991
86-73-7	Fluorene	C		1991
86-88-4	Antu	C		1991
86-88-4	Thiourea, 1-naphthalenyl-	C		1991
87-62-7	2,6-Xylidine		313	1990
87-65-0	2,6-Dichlorophenol	C	*	1991
87-68-3	Hexachloro-1,3-butadiene	C	313	1990
87-68-3	Hexachlorobutadiene	C	X	1990
87-86-5	PCP	C	X	1990
87-86-5	Pentachlorophenol	C	313	
88-06-2	2,4,6-Trichlorophenol	C	313	1990
88-72-2	o-Nitrotoluene	C		1991
88-75-5	2-Nitrophenol	C	313	1990
88-85-7	Dinitrobutyl phenol	C	313	1991
88-85-7	Dinoseb	C	X	1991
88-89-1	Picric acid		313	1990
90-04-0	o-Anisidine	C	313	1990
90-43-7	2-Phenylphenol		313	1990
90-94-8	Michler's ketone		313	1990
91-08-7	Benzene, 1,3-diisocyanato-2-methyl-	C	X	1990
91-08-7	Toluene-2,6-diisocyanate	C	313	1990
91-20-3	Naphthalene	C	313	1990
91-22-5	Quinoline	C	313	
91-58-7	2-Chloronaphthalene	C		
91-59-8	beta-Naphthylamine	C	313	1990
91-66-7	N,N-Diethylaniline	C		

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CAS	NAME	C	313	ADD
91-66-7	N,N-Diethylaniline	C		
91-80-5	Methapyrilene	C		1991
91-93-0	3,3'-Dimethoxybenzidine-4,4'-diisocyanate		313*	1995
91-94-1	3,3'-Dichlorobenzidine	C	313	1990
91-97-4	3,3'-Dimethyl-4,4'-diphenylene diisocyanate		313*	1995
92-52-4	Biphenyl	C	313	1990
92-67-1	4-Aminobiphenyl	C	313	1990
92-87-5	Benzidine	C	313	
92-93-3	4-Nitrobiphenyl	C	313	1990
93-65-2	Mecoprop		313	
93-72-1	Silvex (2,4,5-TP)	C		1991
93-76-5	2,4,5-T acid	C		1991
93-79-8	2,4,5-T esters	C		1991
94-11-1	2,4-D Esters	C	X	1991
94-11-1	2,4-D isopropyl ester	C	313	1991
94-36-0	Benzoyl peroxide		313	1990
94-58-6	Dihydrosafrole	C	313	1991
94-59-7	Safrole	C	313	1990
94-74-6	(4-Chloro-2-methylphenoxy) acetic acid		X	1995
94-74-6	MCPA		X	1995
94-74-6	Methoxone		313	
94-75-7	2,4-D	C	313	1990
94-75-7	2,4-D Acid	C	X	1990
94-75-7	2,4-D, salts and esters	C		
94-75-7	Acetic acid, (2,4-dichlorophenoxy)-	C	X	1990
94-79-1	2,4-D Esters	C		1991
94-80-4	2,4-D butyl ester	C	313	1991
94-80-4	2,4-D Esters	C	X	1991
94-82-6	2,4-DB		313	1995
95-06-7	Carbamodithioic acid, diethyl-, 2-chloro-2-propenyl ester(sulfallate)	C		
95-47-6	Benzene, o-dimethyl-	C	X	1990
95-47-6	o-Xylene	C	313	1990
95-48-7	o-Cresol	C	313	1990
95-50-1	1,2-Dichlorobenzene	C	313	1990
95-50-1	o-Dichlorobenzene	C	X	1990
95-53-4	o-Toluidine	C	313	1990
95-54-5	1,2-Phenylenediamine	313	1995	
95-57-8	2-Chlorophenol	C	*	1991
95-63-6	1,2,4-Trimethylbenzene		313	1990
95-69-2	p-Chloro-o-toluidine		313	1995
95-80-7	2,4-Diaminotoluene	C	313	1990
95-94-3	1,2,4,5-Tetrachlorobenzene	C		
95-95-4	2,4,5-Trichlorophenol	C	313	1990
96-09-3	Styrene oxide	C	313	
96-12-8	1,2-Dibromo-3-chloropropane	C	313	
96-12-8	DBCP	C	X	1990
96-18-4	1,2,3-Trichloropropane		313	1995
96-33-3	Methyl acrylate		313	1990
96-45-7	Ethylene thiourea	C	313	1990
97-23-4	2,2'-Methylenebis(4-chlorophenol		X	1995

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CAS	NAME	C	313	ADD
97-23-4	Dichlorophene		313	1995
97-56-3	C.I. Solvent Yellow 3		313	1990
97-63-2	Ethyl methacrylate	C		
97-74-5	Bis(dimethylthiocarbamoyl) sulfide (tetramethylthiurammonosulfide)	C		
97-77-8	Thioperoxydicarbonic diamide,tetraethyl (Disulfiram)	C		
98-01-1	Furfural	C		
98-07-7	Benzoic trichloride	C	313	
98-07-7	Benzotrichloride	C	X	1990
98-09-9	Benzenesulfonyl chloride	C		1991
98-82-8	Cumene	C	313	1990
98-86-2	Acetophenone	C	313	1991
98-87-3	Benzal chloride	C	313	1990
98-88-4	Benzoyl chloride	C	313	1990
98-95-3	Nitrobenzene	C	313	1990
99-08-1	m-Nitrotoluene	C		1991
99-30-9	2,6-Dichloro-4-nitroaniline		X	1995
99-30-9	Dichloran		313	1995
99-35-4	1,3,5-Trinitrobenzene	C		1991
99-55-8	5-Nitro-o-toluidine	C	313	1991
99-59-2	5-Nitro-o-anisidine		313	1990
99-65-0	m-Dinitrobenzene	C	313	
99-99-0	p-Nitrotoluene	C		1991
100-01-6	p-Nitroaniline	C	313	1991
100-02-7	4-Nitrophenol	C	313	1990
100-02-7	p-Nitrophenol	C	X	
100-25-4	p-Dinitrobenzene	C	313	1990
100-41-4	Ethylbenzene	C	313	1990
100-42-5	Styrene	C	313	
100-44-7	Benzyl chloride	C	313	1990
100-47-0	Benzonitrile	C		1991
100-75-4	N-Nitrosopiperidine	C	313	1990
101-05-3	4,6-Dichloro-N-(2-chlorophenyl)-1,3,5-triazin-2-amine		X	1995
101-05-3	Anilazine		313	1995
101-14-4	4,4'-Methylenebis(2-chloroaniline)	C	313	
101-14-4	MBOCA	C	X	1990
101-27-9	Carbamic, (3-chlorophenyl)-,4-chloro-2-butynyl ester(barban)	C		
101-55-3	4-Bromophenyl phenyl ether	C		
101-61-1	4,4'-Methylenebis(N,N-dimethyl)benzenamine		313	1990
101-68-8	MDI	C	X*	1990
101-77-9	4,4'-Methylenedianiline	C	313	
101-80-4	4,4'-Diaminodiphenyl ether		313	1990
101-90-6	Diglycidyl resorcinol ether		313	1995
103-85-5	Phenylthiourea	C		1991
104-12-1	p-Chlorophenyl isocyanate		313	1995
104-49-4	1,4-Phenylene diisocyanate		313*	1995
104-94-9	p-Anisidine		313	1990
105-46-4	sec-Butyl acetate	C		1991
105-67-9	2,4-Dimethylphenol	C	313	1990

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CAS	NAME	C	313	ADD
106-42-3	Benzene, p-dimethyl-	C	X	1990
106-42-3	p-Xylene	C	313	1990
106-44-5	p-Cresol	C	313	1990
106-46-7	1,4-Dichlorobenzene	C	313	1990
106-47-8	p-Chloroaniline	C	313	1991
106-49-0	p-Toluidine	C		1991
106-50-3	p-Phenylenediamine	C	313	1990
106-51-4	p-Benzoquinone	C	X	1990
106-51-4	Quinone	C	313	1990
106-88-7	1,2-Butylene oxide	C	313	1990
106-89-8	Epichlorohydrin	C	313	1990
106-89-8	Oxirane, (chloromethyl)-	C	X	1990
106-93-4	1,2-Dibromoethane	C	313	1990
106-93-4	Ethylene dibromide	C	X	1990
106-99-0	1,3-Butadiene	C	313	1990
107-02-8	2-Propenal	C	X	1990
107-02-8	Acrolein	C	313	1990
107-05-1	Allyl chloride	C	313	
107-06-2	1,2-Dichloroethane	C	313	1990
107-06-2	Ethylene dichloride	C	X	1990
107-10-8	n-Propylamine	C		1991
107-11-9	2-Propen-1-amine		X	
107-11-9	Allylamine		313	1995
107-12-0	Ethyl cyanide	C		1991
107-12-0	Propanenitrile	C		1991
107-12-0	Propionitrile	C		1991
107-13-1	2-Propenenitrile	C	X	1990
107-13-1	Acrylonitrile	C	313	1990
107-15-3	1,2-Ethanediamine	C		1991
107-15-3	Ethylenediamine	C		1991
107-18-6	2-Propen-1-ol	C	X	1990
107-18-6	Allyl alcohol	C	313	1990
107-19-7	Propargyl alcohol	C	313	1991
107-20-0	Chloroacetaldehyde	C		1991
107-21-1	Ethylene glycol	C	313	1990
107-30-2	Chloromethyl methyl ether	C	313	1990
107-30-2	Methane, chloromethoxy-	C	X	1990
107-49-3	Tepp	C		1991
107-49-3	Tetraethyl pyrophosphate	C		1991
107-92-6	Butyric acid	C		1991
108-05-4	Acetic acid ethenyl ester	C	X	1990
108-05-4	Vinyl acetate	C	313	1990
108-05-4	Vinyl acetate monomer	C	X	1990
108-10-1	Methyl isobutyl ketone	C	313	1990
108-24-7	Acetic anhydride	C		1991
108-31-6	Maleic anhydride	C	313	
108-38-3	Benzene, m-dimethyl-	C	X	1990
108-38-3	m-Xylene	C	313	1990
108-39-4	m-Cresol	C	313	1990
108-45-2	1,3-Phenylenediamine		313	1995
108-46-3	Resorcinol	C		1991
108-60-1	Bis(2-chloro-1-methylethyl)ether	C	313	
108-60-1	Dichloroisopropyl ether	C	X	1990
108-88-3	Toluene	C	313	1990
108-90-7	Chlorobenzene	C	313	1990

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108-93-0	Cyclohexanol		313	1995
108-94-1	Cyclohexanone	C		1991
108-95-2	Phenol	C	313	1990
108-98-5	Benzenethiol	C		1991
108-98-5	Thiophenol	C		1991
109-06-8	2-Methylpyridine	C	313	
109-06-8	2-Picoline	C	X	1991
109-73-9	Butylamine	C		1991
109-77-3	Malononitrile	C	313	1991
109-86-4	2-Methoxyethanol		313	1990
109-89-7	Diethylamine	C		1991
109-99-9	Furan, tetrahydro-	C		1991
110-00-9	Furan	C		1991
110-16-7	Maleic acid	C		
110-17-8	Fumaric acid	C		
110-19-0	iso-Butyl acetate	C		1991
110-54-3	Hexane	C	X	1995
110-54-3	n-Hexane	C	313	1995
110-57-6	trans-1,4-Dichloro-2-butene		313	1995
110-57-6	trans-1,4-Dichlorobutene		X	1995
110-75-8	2-Chloroethyl vinyl ether	C		1991
110-80-5	2-Ethoxyethanol	C	313	1990
110-80-5	Ethanol, 2-ethoxy-	C	X	1990
110-82-7	Cyclohexane	C	313	1990
110-86-1	Pyridine	C	313	1990
111-42-2	Diethanolamine	C	313	1990
111-44-4	Bis(2-chloroethyl) ether	C	313	1990
111-44-4	Dichloroethyl ether	C	X	1990
111-54-6	Ethylenebisdithiocarbamic acid, salts & esters	C		1991
111-91-1	Bis(2-chloroethoxy) methane	C	313	1991
114-26-1	Phenol, 2-(1-methylethoxy)-, methylcarbamate	C	X	1990
114-26-1	Propoxur	C	313	
115-02-6	Azaserine	C		1991
115-07-1	1-Propene		X	1990
115-07-1	Propene		X	1990
115-07-1	Propylene		313	1990
115-28-6	Chlorendic acid		313	1995
115-29-7	Endosulfan	C		1991
115-32-2	Benzenemethanol, 4-chloro-.alpha.-4-chlorophenyl)-.alpha.-(trichloromethyl)-	C	X	1990
115-32-2	Dicofol	C	313	1990
116-06-3	Aldicarb	C	313	1991
117-79-3	2-Aminoanthraquinone		313	1990
117-80-6	Dichlone	C		1991
117-81-7	Bis(2-ethylhexyl)phthalate	C	X	1990
117-81-7	DEHP	C	X	1990
117-81-7	Di(2-ethylhexyl) phthalate	C	313	1990
117-84-0	Di-n-octyl phthalate	C		1990
117-84-0	n-Dioctylphthalate	C		1990
118-74-1	Hexachlorobenzene	C	313	1990
119-38-0	Carbamic acid,dimethyl-, 3-methyl-1-(1-methylethyl)-1H-pyrazol-5-yl ester (isolan)	C		
119-90-4	3,3'-Dimethoxybenzidine	C	313	1990

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CAS	NAME	C	313	ADD
119-93-7	3,3'-Dimethylbenzidine	C	313	1990
119-93-7	o-Tolidine	C	X	
120-12-7	Anthracene	C	313	1990
120-36-5	2,4-DP		313	1995
120-54-7	Piperidine, 1,1-(tetrathiodicarbonothioyl)-bis-(Bis(pentamenthylene)thiuram tetrasulfide)	C		
120-58-1	Isosafrole	C	313	1990
120-71-8	p-Cresidine		313	1990
120-80-9	Catechol	C	313	1990
120-82-1	1,2,4-Trichlorobenzene	C	313	1990
120-83-2	2,4-Dichlorophenol	C	313	1990
121-14-2	2,4-Dinitrotoluene	C	313	1990
121-21-1	Pyrethrins	C		1991
121-29-9	Pyrethrins	C		1991
121-44-8	Triethylamine	C	313	
121-69-7	N,N-Dimethylaniline	C	313	1990
121-75-5	Malathion	C	313	1991
122-09-8	Benzeneethanamine, alpha,alpha-dimethyl-	C		1991
122-34-9	Simazine		313	1995
122-39-4	Diphenylamine		313	1995
122-42-9	Carbamic acid, phenyl-, 1-methylethyl ester (propham)	C		
122-66-7	1,2-Diphenylhydrazine	C	313	1990
122-66-7	Hydrazine, 1,2-diphenyl-	C	X	
122-66-7	Hydrazobenzene	C	X	1990

CAS	NAME	C	313	ADD
123-31-9	Hydroquinone (manufactured only)	C	313	1990
123-33-1	Maleic hydrazide	C		
123-38-6	Propionaldehyde	C	313	1990
123-61-5	1,3-Phenylene diisocyanate		313*	1995
123-62-6	Propionic anhydride	C		1991
123-63-7	Paraldehyde	C	313	1991
123-72-8	Butyraldehyde		313	1990
123-73-9	2-Butenal, (e)-	C		1991
123-73-9	Crotonaldehyde, (E)-	C		1991
123-86-4	Butyl acetate	C		1991
123-91-1	1,4-Dioxane	C	313	1990
123-92-2	iso-Amyl acetate	C		1991
124-04-9	Adipic acid	C		
124-40-3	Dimethylamine	C	313	
124-40-3	Methanamine, N-methyl-	C	X	1991
124-41-4	Sodium methylate	C		1991
124-48-1	Chlorodibromomethane	C		1991
124-73-2	Dibromotetrafluoroethane		313	1991
124-73-2	Halon 2402		X	1991
126-72-7	Tris(2,3-dibromopropyl) phosphate	C	313	1990
126-98-7	2-Propenenitrile, 2-methyl-	C	X	1991
126-98-7	methacrylonitrile	C	313	
126-99-8	Chloroprene	C	313	
127-18-4	Perchloroethylene	C	X	
127-18-4	Tetrachloroethylene	C	313	1990
127-82-2	Zinc phenolsulfonate	C	*	1991

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CAS	NAME	C	313	ADD
128-03-0	Potassium dimethyldithiocarbamate		313	1995
128-04-1	Sodium dimethyldithiocarbamate		313	1995
128-66-5	C.I. Vat Yellow 4		313	1990
129-00-0	Pyrene	C		1991
130-15-4	1,4-Naphthoquinone	C		
131-11-3	Dimethyl phthalate	C	313	1990
131-52-2	Sodium pentachlorophenate		313	1995
131-74-8	Ammonium picrate	C		1991
131-89-5	2-Cyclohexyl-4,6-dinitrophenol	C		1991
132-27-4	Sodium o-phenylphenoxide		313	1995
132-64-9	Dibenzofuran	C	313	1990
133-06-2	1H-Isoindole-1,3(2H)-dione, 3a,4,7,7a-tetrahydro-2-[(trichloromethyl)thio]-	C	X	
133-06-2	Captan	C	313	1990
133-07-3	Folpet		313	
133-90-4	Benzoic acid, 3-amino-2,5-dichloro-	C	X	1990
133-90-4	Chloramben	C	313	1990
134-29-2	o-Anisidine hydrochloride		313	1990
134-32-7	alpha-Naphthylamine	C	313	1990
135-20-6	Benzeneamine, N-hydroxy-N-nitroso, ammonium salt		X	1990
135-20-6	Cupferron		313	1990
136-30-1	Carbamodithioic acid, dibutyl, sodium salt (Sodium dibutyldithiocarbamate)	C		
136-45-8	Dipropyl isocinchomeronate		313	1995
137-26-8	Thiram	C	313	
137-29-1	Copper, bis(dimethylcarbamodithioato-S-S)-(copper dimethyldithiocarbamate)	C	*	
137-30-4	Zinc, bis(dimetylcarbomodithioato-S,S)-, (ziram)	C	*	
137-41-7	Potassium N-methyldithiocarbamate		313	1995
137-42-8	Metham sodium		313	1995
137-42-8	Sodium methyldithiocarbamate		X	1995
138-93-2	Disodium cyanodithioimidocarbonate		313	1995
139-13-9	Nitrilotriacetic acid		313	1990
139-25-3	3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate		313*	1995
139-65-1	4,4'-Thiodianiline		313	1990
140-88-5	Ethyl acrylate	C	313	1990
141-32-2	Butyl acrylate		313	1990
141-78-6	Ethyl acetate	C		1991
142-28-9	1,3-Dichloropropane	C		1991
142-59-6	Nabam		313	1995
142-71-2	Cupric acetate	C		1991
142-84-7	Dipropylamine	C		1991
143-33-9	Sodium cyanide (Na(CN))	C	*	
143-50-0	Kepone	C		

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CAS	NAME	C	313	ADD
144-34-3	Carbamodithioic acid, dimethyl-, tetraanhydrosulfid with orthothioselenious acid(selenium, tetrakis(dimethyldithiocarbamate))	C	*	
145-73-3	Endothall	C		
148-18-5	Carbamodithioic acid, diethyl-,sodium salt (sodium diethyldithiocarbamate)	C		
148-79-8	2-(4-Thiazolyl)-1H-benzimidazole		X	1995
148-79-8	Thiabendazole		313	1995
148-82-3	Melphalan	C		1991
149-30-4	2-Mercaptobenzothiazole		313	1995
149-30-4	MBT		X	1995
150-50-5	Merphos		313	1995
150-68-5	Monuron			313
151-50-8	Potassium cyanide	C	*	1991
151-56-4	Aziridine	C	X	1990
151-56-4	Ethyleneimine	C	313	1990
152-16-9	Diphosphoramide, octamethyl-	C		1991
156-10-5	p-Nitrosodiphenylamine		313	1990
156-60-5	1,2-Dichloroethylene	C		1991
156-62-7	Calcium cyanamide	C	313	
189-55-9	Benzo(rst)pentaphene	C	313*	
189-55-9	Dibenz[a,i]pyrene	C	X*	1991
189-64-0	Dibenzo(a,h)pyrene		313*	1995
191-24-2	Benzo[ghi]perylene	C		
191-30-0	Dibenzo(a,l)pyrene		313*	1995
192-65-4	Dibenzo(a,e)pyrene		313*	1995
193-39-5	Indeno(1,2,3-cd)pyrene	C	313*	1991
194-59-2	7H-Dibenzo(c,g)carbazole		313*	1995
196-86-9	6-Methyl-1,3-dithiolo[4,5-b]quinoxalin-2-one		X	1995
196-86-9	Chinomethionat		313	1995
197-14-3	Dodecylguanidine monoacetate		X	1995
197-14-3	Dodine		313	1995
205-82-3	Benzo(j)fluoranthene		313*	1995
205-99-2	Benzo[b]fluoranthene	C	313*	1992
206-44-0	Fluoranthene	C	*	
207-08-9	Benzo(k)fluoranthene	C	313*	1992
208-96-8	Acenaphthylene	C		
218-01-9	Benzo(a)phenanthrene	C	313*	1992
218-01-9	Chrysene	C	X*	1992
224-42-0	Dibenz(a,j)acridine		313*	1995
225-51-4	Benz[c]acridine	C		1992
226-36-8	Dibenz(a,h)acridine		313*	1995
297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate	C		1992
297-97-2	Thionazin	C		1992
298-00-0	Methyl parathion	C	313	1992
298-00-0	Parathion-methyl	C	X	
298-02-2	Phorate	C		
298-04-4	Disulfoton	C		1992
300-76-5	Naled	C	313	1992

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CAS	NAME	C	313	ADD
301-04-2	Lead acetate	C	*	1992
301-12-2	Oxydemeton methyl		313	1995
301-12-2	S-(2-(Ethylsulfinyl)ethyl) O,O-dimethyl ester phosphorothioic acid		X	1995
302-01-2	Hydrazine	C	313	1990
303-34-4	Lasiocarpine	C		1992
305-03-3	Chlorambucil	C		1992
306-83-2	2,2-Dichloro-1,1,1-trifluoroethane		313	
306-83-2	HCFC-123		X	
309-00-2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-(1.alpha.,4.alpha.,4a.beta.,5.alpha.,8.alpha.,8a.beta.)-	C	X	1990
309-00-2	Aldrin	C	313	1990
311-45-5	Diethyl-p-nitrophenyl phosphate	C		1992
314-40-9	5-Bromo-6-methyl-3-(1-methylpropyl)-2,4-(1H,3H)-pyrimidinedione		X	1995
314-40-9	Bromacil		313	1995
315-18-4	Mexacarbate	C		1992
319-84-6	alpha-BHC	C	X	1992
319-84-6	alpha-Hexachlorocyclohexane	C	313	1992
319-85-7	beta-BHC	C		1992
319-86-8	delta-BHC	C		1992
329-71-5	2,5-Dinitrophenol	C		1992
330-54-1	Diuron	C		313
330-55-2	Linuron			313
333-41-5	Diazinon	C		313
334-88-3	Diazomethane	C		313
353-50-4	Carbonic difluoride	C		
353-59-3	Bromochlorodifluoromethane		313	1992
353-59-3	Halon 1211		X	1992
354-11-0	1,1,1,2-Tetrachloro-2-fluoroethane		313	1995
354-11-0	HCFC-121a		X	1995
354-14-3	1,1,2,2-Tetrachloro-1-fluoroethane		313	1995
354-14-3	HCFC-121		X	1995
354-23-4	1,2-Dichloro-1,1,2-trifluoroethane		313	
354-23-4	HCFC-123a		X	
354-25-6	1-Chloro-1,1,2,2-tetrafluoroethane		313	
354-25-6	HCFC-124a		X	
357-57-3	Brucine		C	313
422-44-6	1,2-Dichloro-1,1,2,3,3-pentafluoropropane		313	1995
422-44-6	HCFC-225bb		X	1995
422-48-0	2,3-Dichloro-1,1,1,2,3-pentafluoropropane		313	1995
422-48-0	HCFC-225ba		X	1995
422-56-0	3,3-Dichloro-1,1,1,2,2-pentafluoropropane		313	1995
422-56-0	HCFC-225ca		X	1995
431-86-7	1,2-Dichloro-1,1,3,3,3-pentafluoropropane		313	1995
431-86-7	HCFC-225da		X	1995
460-19-5	Cyanogen	C	*	1992

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CAS	NAME	C	313	ADD
460-19-5	Ethanedinitrile	C		1992
460-35-5	3-Chloro-1,1,1-trifluoropropane		313	1995
460-35-5	HCFC-253fb		X	1995
463-58-1	Carbon oxide sulfide (COS)	C	X	1990
463-58-1	Carbonyl sulfide	C	313	1990
465-73-6	Isodrin	C	313	1992
492-80-8	Auramine	C	X	1990
492-80-8	C.I. Solvent Yellow 34	C	313	1990
494-03-1	Chlornaphazine	C		
496-72-0	Diaminotoluene	C		
504-24-5	4-Aminopyridine	C		1992
504-24-5	Pyridine, 4-amino-	C		1992
504-60-9	1,3-Pentadiene	C		1992
505-60-2	Ethane, 1,1'-thiobis[2-chloro-		X	1995
505-60-2	Mustard gas		X	1995
506-61-6	Potassium silver cyanide	C	*	1992
506-64-9	Silver cyanide	C	*	1992
506-68-3	Cyanogen bromide	C	*	
506-77-4	Cyanogen chloride	C	*	
506-77-4	Cyanogen chloride ((CN)Cl)	C	*	1992
506-87-6	Ammonium carbonate	C		1992
506-96-7	Acetyl bromide	C		1992
507-55-1	1,3-Dichloro-1,1,2,2,3-pentafluoropropane		313	1995
507-55-1	HCFC-225cb		X	1995
509-14-8	Methane, tetranitro-	C		1992
509-14-8	Tetranitromethane	C		1992
510-15-6	Benzeneacetic acid, 4-chloro-.alpha.-(4-chlorophenyl)-.alpha.-hydroxy-, ethyl ester	C	X	
510-15-6	Chlorobenzilate	C	313	
513-49-5	sec-Butylamine	C		1992
528-29-0	o-Dinitrobenzene	C	313	1990
532-27-4	2-Chloroacetophenone	C	313	1990
533-74-4	Dazomet		313	
533-74-4	Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione		X	1995
534-52-1	4,6-Dinitro-o-cresol	C	313	1990
534-52-1	4,6-Dinitro-o-cresol and salts	C		1992
534-52-1	Dinitrocresol	C	X	1992
540-59-0	1,2-Dichloroethylene		313	1990
540-73-8	Hydrazine, 1,2-dimethyl-	C		
540-84-1	2,2,4-Trimethylpentane	C		
540-84-1	2,2,4-Trimethylpentane	C		
540-88-5	tert-Butyl acetate	C		1992
541-09-3	Uranyl acetate	C		1992
541-41-3	Ethyl chloroformate		313	1990
541-53-7	2,4-Dithiobiuret	C	313	1992
541-53-7	Dithiobiuret	C	X	1992
541-73-1	1,3-Dichlorobenzene	C	313	1990
542-62-1	Barium cyanide	C	*	1992
542-75-6	1,3-Dichloropropene	C	X	1990
542-75-6	1,3-Dichloropropylene	C	313	1990
542-76-7	3-Chloropropionitrile	C	313	1992
542-76-7	Propionitrile, 3-chloro-	C	X	1992

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CAS	NAME	C	313	ADD
542-88-1	Bis(chloromethyl) ether	C	313	1990
542-88-1	Chloromethyl ether	C	X	1990
542-88-1	Dichloromethyl ether	C	X	
542-88-1	Methane, oxybis[chloro-	C	X	1990
543-90-8	Cadmium acetate	C	*	
544-18-3	Cobaltous formate	C	*	
544-92-3	Copper cyanide	C	*	1992
554-13-2	Lithium carbonate		313	1995
554-84-7	m-Nitrophenol	C		1992
556-61-6	Isothiocyanatomethane		X	1995
556-61-6	Methyl isothiocyanate		313	1995
557-19-7	Nickel cyanide	C	*	
557-21-1	Zinc cyanide	C	*	1992
557-34-6	Zinc acetate	C	*	
557-41-5	Zinc formate	C	*	1992
563-12-2	Ethion	C		1992
563-47-3	3-Chloro-2-methyl-1-propene		313	1995
563-68-8	Thallium(I) acetate	C	*	1992
569-64-2	C.I. Basic Green 4		313	1990
573-56-8	2,6-Dinitrophenol	C		1992
584-84-9	Benzene, 2,4-diisocyanato-1-methyl-	C	X	1990
584-84-9	Toluene-2,4-diisocyanate	C	313	1990
591-08-2	1-Acetyl-2-thiourea	C		1992
592-01-8	Calcium cyanide	C	*	1992
592-04-1	Mercuric cyanide	C	*	1992
592-85-8	Mercuric thiocyanate	C	*	1992
592-87-0	Lead thiocyanate	C	*	1992
593-60-2	Vinyl bromide	C	313	1990
594-42-3	Methanesulfenyl chloride, trichloro-	C		1992
594-42-3	Perchloromethyl mercaptan	C	313	1992
594-42-3	Trichloromethanesulfenyl chloride	C	X	1992
598-31-2	Bromoacetone	C		1992
601-64-9	DDE	C		
601-64-9	DDET	C		
606-20-2	2,6-Dinitrotoluene	C	313	
608-73-1	Hexachlorocyclohexane (all isomers) CAS 608-73-1	C		
608-93-5	Pentachlorobenzene	C		
609-19-8	3,4,5-Trichlorophenol	C	*	
610-39-9	3,4-Dinitrotoluene	C		1992
612-82-8	3,3'-Dimethylbenzidine dihydrochloride		313	1995
612-82-8	o-Tolidine dihydrochloride		X	1995
612-83-9	3,3'-Dichlorobenzidine dihydrochloride		313	1995
615-05-4	2,4-Diaminoanisole		313	1990
615-28-1	1,2-Phenylenediamine dihydrochloride		313	1995
615-53-2	N-Nitroso-N-methylurethane	C		1992
621-64-7	Di-n-propylnitrosamine	C	X	1990
621-64-7	N-Nitrosodi-n-propylamine	C	313	1990
624-18-0	1,4-Phenylenediamine dihydrochloride		313	1995
624-83-9	Methane, isocyanato-	C	X	

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624-83-9	Methyl isocyanate	C	313	1990
625-16-1	tert-Amyl acetate	C		1992
626-38-0	sec-Amyl acetate	C		1992
628-63-7	Amyl acetate	C		1992
628-86-4	Mercury fulminate	C	*	
630-10-4	Selenourea	C	*	1992
630-20-6	1,1,1,2-Tetrachloroethane	C	313	1992
630-20-6	Ethane, 1,1,1,2-tetrachloro-	C	X	1992
631-61-8	Ammonium acetate	C		1992
636-21-5	o-Toluidine hydrochloride	C	313	1990
639-58-7	Triphenyltin chloride		313	1995
640-19-7	Fluoroacetamide	C		1992
644-64-4	Carbamic acid, dimethyl-,1-[(dimethylamino)carbonyl]-5-methyl-1H-pyrazol-3-y-l ester(Dimetilan)	C		
680-31-9	Hexamethylphosphoramide	C	313	1990
684-93-5	N-Nitroso-N-methylurea	C	313	1990
692-42-2	Diethylarsine	C	*	1992
696-28-6	Dichlorophenylarsine	C	*	1992
696-28-6	Phenyl dichloroarsine	C		
709-98-8	N-(3,4-Dichlorophenyl)propanamide		X	1995
709-98-8	Propanil		313	1995
757-58-4	Hexaethyl tetraphosphate	C		1992
759-73-9	N-Nitroso-N-ethylurea	C	313	
759-94-4	EPTC		X	
759-94-4	Ethyl dipropylthiocarbamate		313	1995
764-41-0	1,4-Dichloro-2-butene	C	313	1992
764-41-0	2-Butene, 1,4-dichloro-	C	X	1992
765-34-4	Glycidylaldehyde	C		1992
812-04-4	1,1-Dichloro-1,2,2-trifluoroethane		313	
812-04-4	HCFC-123b		X	
815-82-7	Cupric tartrate	C	*	
822-06-0	Hexamethylene-1,6-diisocyanate	C	313*	1995
823-40-5	Diaminotoluene	C		
834-12-8	Ametryn		313	1995
834-12-8	N-Ethyl-N'-(1-methylethyl)-6-(methylthio)-1,3,5,-triazine-2,4-diamine		X	1995
842-07-9	C.I. Solvent Yellow 14		313	1990
872-50-4	N-Methyl-2-pyrrolidone		313	1995
924-16-3	N-Nitrosodi-n-butylamine	C	313	1990
924-42-5	N-Methylolacrylamide		313	1995
930-55-2	N-Nitrosopyrrolidine	C		
933-75-5	2,3,6-Trichlorophenol	C	*	
933-78-8	2,3,5-Trichlorophenol	C	*	1992
957-51-7	Diphenamid		313	
959-98-8	alpha - Endosulfan	C		1992
961-11-5	Phosphoric acid, 2-chloro-1-(2,3,5-trichlorophenyl) ethenyl dimethyl ester		X	1990
961-11-5	Tetrachlorvinphos		313	1990
989-38-8	C.I. Basic Red 1		313	1990
1024-57-3	Heptachlor epoxide	C		
1031-07-8	Endosulfan sulfate	C		1992
1066-30-4	Chromic acetate	C	*	1992

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CAS	NAME	C	313	ADD
1066-33-7	Ammonium bicarbonate	C		1992
1072-35-1	Lead stearate	C	*	1992
1111-78-0	Ammonium carbamate	C		1992
1114-71-2	Butylethylcarbamothioic acid S-propyl ester		X	1995
1114-71-2	Pebulate		313	
1116-54-7	N-Nitrosodiethanolamine	C		1992
1120-71-4	1,3-Propane sultone	C	X	1990
1120-71-4	Propane sultone	C	313	1990
1129-41-5	Carbamic acid, methyl- 3-methylphenyl ester (metolcarb)	C		
1134-23-2	Cycloate		313	1995
1163-19-5	Decabromodiphenyl oxide		313	1990
1185-57-5	Ferric ammonium citrate	C		1992
1194-65-6	Dichlobenil	C		1992
1300-71-6	Xylenol	C		1992
1303-28-2	Arsenic pentoxide	C	*	
1303-32-8	Arsenic disulfide	C	*	
1303-33-9	Arsenic trisulfide	C	*	1992
1309-64-4	Antimony trioxide	C	*	1992
1310-58-3	Potassium hydroxide	C		1992
1310-73-2	Sodium hydroxide	C		1992
1313-27-5	Molybdenum trioxide		313	1990
1314-20-1	Thorium dioxide		313	1990
1314-32-5	Thallic oxide	C	*	1992
1314-62-1	Vanadium pentoxide	C		1992
1314-80-3	Sulfur phosphide	C		1992
1314-84-7	Zinc phosphide	C	*	1992
1314-84-7	Zinc phosphide (conc. <= 10%)	C	*	1992
1314-84-7	Zinc phosphide (conc. > 10%)	C		1992
1314-87-0	Lead sulfide	C	*	1992
1319-72-8	2,4,5-T amines	C		1992
1319-77-3	Cresol (mixed isomers)	C	313	1990
1320-18-9	2,4-D Esters	C	X	1992
1320-18-9	2,4-D propylene glycol butyl ether ester	C	313	1992
1321-12-6	Nitrotoluene	C		1992
1327-52-2	Arsenic acid	C	*	1992
1327-53-3	Arsenic trioxide	C	*	1992
1327-53-3	Arsenous oxide	C	*	
1330-20-7	Xylene (mixed isomers)	C	313	1990
1332-07-6	Zinc borate	C	*	1992
1332-21-4	Asbestos (friable)	C	313	1990
1333-83-1	Sodium bifluoride	C		1992
1335-32-6	Lead subacetate	C	*	1992
1335-87-1	Hexachloronaphthalene		313	1990
1336-21-6	Ammonium hydroxide	C		
1336-36-3	PCBs	C	X	1990
1336-36-3	Polychlorinated biphenyls	C	313	1990
1338-23-4	Methyl ethyl ketone peroxide	C		1992
1338-24-5	Naphthenic acid	C		1992
1341-49-7	Ammonium bifluoride	C		1992
1344-28-1	Aluminum oxide (fibrous forms)		313	1990
1464-53-5	2,2'-Bioxirane	C	X	1990

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CAS	NAME	C	313	ADD
1464-53-5	Diepoxybutane	C	313	1990
1563-38-8	7-Benzofuranol,2,3-dihydro-2,2-dimethyl-(carbofuran phenol)	C		
1563-66-2	Carbofuran	C	313	1992
1582-09-8	Benezeneamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)-	C	X	
1582-09-8	Trifluralin	C	313	
1615-80-1	Hydrazine, 1,2-diethyl-	C		
1634-02-2	Thioperoxydicarbonic diamid, tetrabutyl (tetrabutylthiuram disulfide)	C		
1634-04-4	Methyl tert-butyl ether	C	313	
1646-88-4	Propanal, 2-methyl-2-(methylsulfonyl)-,[(methylamino)carbonyl] oxime (Aldicarb sulfone)	C		
1649-08-7	1,2-Dichloro-1,1-difluoroethane		313	1995
1649-08-7	HCFC-132b		X	
1689-84-5	3,5-Dibromo-4-hydroxybenzonitrile		X	1995
1689-84-5	Bromoxynil		313	1995
1689-99-2	Bromoxynil octanoate		313	1995
1689-99-2	Octanoic acid, 2,6-dibromo-4-cyanophenyl ester		X	1995
1717-00-6	1,1-Dichloro-1-fluoroethane		313	
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	C		1992
1762-95-4	Ammonium thiocyanate	C	*	1992
1836-75-5	Benzene, 2,4-dichloro-1-(4-nitrophenoxy)-		X	
1836-75-5	Nitrofen			313
1861-40-1	Benfluralin			313
1861-40-1	N-Butyl-N-ethyl-2,6-dinitro-4-(trifluoromethyl) benzenamine		X	1995
1863-63-4	Ammonium benzoate	C		1992
1888-71-7	Hexachloropropene	C		1992
1897-45-6	1,3-Benzenedicarbonitrile, 2,4,5,6-tetrachloro-		X	1990
1897-45-6	Chlorothalonil		313	1990
1910-42-5	Paraquat dichloride		313	1995
1912-24-9	6-Chloro-N-ethyl-N'-(1-methylethyl)-1,3,5-triazine-2,4-diamine		X	1995
1912-24-9	Atrazine		313	
1918-00-9	3,6-Dichloro-2-methoxybenzoic acid	C	X	1992
1918-00-9	Dicamba	C	313	1992
1918-16-7	2-Chloro-N-(1-methylethyl)-N-phenylacetamide		X	1995
1918-16-7	Propachlor		313	1995
1928-38-7	2,4-D Esters	C		1992
1928-43-4	2,4-D 2-ethylhexyl ester		313	1995
1928-47-8	2,4,5-T esters	C		1992
1928-61-6	2,4-D Esters	C		
1929-73-3	2,4-D butoxyethyl ester	C	313	
1929-73-3	2,4-D Esters	C	X	
1929-77-7	Carbamothioic acid, dipropyl-, S-propyl ester (vemolate)	C		

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1929-82-4	2-Chloro-6-(trichloromethyl)pyridine		X	1995
1929-82-4	Nitrapyrin		313	1995
1937-37-7	C.I. Direct Black 38		313	1990
1982-69-0	3,6-Dichloro-2-methoxybenzoic acid, sodium salt		X	1995
1982-69-0	Sodium dicamba		313	1995
2008-41-5	Carbamothioic acid, bis(2-methylpropyl)-, S-ethyl ester (butylate)	C		
2008-46-0	2,4,5-T amines	C		1992
2025-85-2	Selenium dioxide	C		1992
2032-65-7	Mercaptodimethur	C	X	
2032-65-7	Methiocarb	C	313	1992
2095-58-1	Borane, trifluoro-		X	1995
2095-58-1	Boron trifluoride		313	1995
2125-68-3	Phosphorous trichloride	C		1993
2125-68-3	Phosphorus trichloride	C		
2139-59-4	Potassium bromate		313	1995
2146-10-8	Sodium chromate	C	*	
2148-87-8	Hydrogen sulfide	C	313	
2151-06-8	Strontium chromate	C	*	
2151-16-3	Ammonium bichromate	C	*	
2155-70-6	Tributyltin methacrylate		313	1995
2164-07-0	7-Oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid, dipotassium salt		X	1995
2164-07-0	Dipotassium endothall		313	1995
2164-17-2	Fluometuron		313	1990
2164-17-2	Urea, N,N-dimethyl-N'-[3-(trifluoromethyl)phenyl]-		X	
2212-67-1	1H-Azepine-1 carbothioic acid, hexahydro-S-ethyl ester		X	1995
2212-67-1	Molinate		313	1995
2234-13-1	Octachloronaphthalene		313	1990
2300-66-5	Dimethylamine dicamba		313	1995
2303-16-4	Carbamothioic acid, bis(1-methylethyl)-S-(2,3-dichloro-2-propenyl)ester	C	X	
2303-16-4	Diallate	C	313	
2303-17-5	Triallate		313	
2312-35-8	Propargite	C	313	1992
2524-03-0	Dimethyl chlorothiophosphate		313	1995
2524-03-0	Dimethyl phosphorochloridothioate		X	1995
2545-59-7	2,4,5-T esters	C		1992
2556-36-7	1,4-Cyclohexane diisocyanate		313*	1995
2602-46-2	C.I. Direct Blue 6		313	1990
2631-37-0	Phenol, 3-methyl-5-(1-methylethyl)-, methyl carbamate (promecarb)	C		
2655-15-4	2,3,5-Trimethylphenyl methylcarbamate		313	1995
2699-79-8	Sulfuryl fluoride		313	1995
2699-79-8	Vikane		X	
2702-72-9	2,4-D sodium salt		313	1995
2763-96-4	5-(Aminomethyl)-3-isoxazolol	C		1992
2763-96-4	Muscimol	C		1992
2764-72-9	Diquat	C		1992
2832-40-8	C.I. Disperse Yellow 3		313	1990
2837-89-0	2-Chloro-1,1,1,2-tetrafluoroethane		313	

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2837-89-0	HCFC-124		X	
2921-88-2	Chlorpyrifos	C		1992
2944-67-4	Ferric ammonium oxalate	C		1992
2971-38-2	2,4-D chlorocrotyl ester	C		313
2971-38-2	2,4-D Esters	C	X	1992
3012-65-5	Ammonium citrate, dibasic	C		1992
3118-97-6	C.I. Solvent Orange 7		313	1990
3164-29-2	Ammonium tartrate	C		1992
3165-93-3	4-Chloro-o-toluidine, hydrochloride	C		
3173-72-6	1,5-Naphthalene diisocyanate		313*	1995
3251-23-8	Cupric nitrate	C	*	1992
3288-58-2	O,O-Diethyl S-methyl dithiophosphate	C		1992
3383-96-8	Temephos		313	
3486-35-9	Zinc carbonate		*	
3547-04-4	DDE	C		
3547-04-4	DDET	C		
3653-48-3	(4-Chloro-2-methylphenoxy) acetate sodium salt		X	1995
3653-48-3	Methoxone sodium salt		313	1995
3689-24-5	Sulfotep	C		1992
3689-24-5	Tetraethyldithiopyrophosphate	C		1992
3697-24-3	5-Methylchrysene		313*	1995
3761-53-3	C.I. Food Red 5		313	1990
3813-14-7	2,4,5-T amines	C		
4080-31-3	1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride		313	1995
4098-71-9	Isophorone diisocyanate		313*	1995
4128-73-8	4,4'-Diisocyanatodiphenyl ether		313	1995
4170-30-3	2-Butenal	C	X	
4170-30-3	Crotonaldehyde	C	313	
4549-40-0	N-Nitrosomethylvinylamine	C	313	
4680-78-8	C.I. Acid Green 3		313	1990
5124-30-1	1,1'-Methylene bis(4-isocyanatocyclohexane)		313*	1995
5234-68-4	5,6-Dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide		X	1995
5234-68-4	Carboxin		313	1995
5344-82-1	Thiourea, (2-chlorophenyl)-	C	*	1992
5385-75-1	Dibenzo(a,e)fluoranthene		313*	1995
5522-43-0	1-Nitropyrene		313*	1995
5598-13-0	Chlorpyrifos methyl		313	1995
5598-13-0	O,O-Dimethyl-O-(3,5,6-trichloro-2-pyridyl)phosphorothioate		X	1995
5893-66-3	Cupric oxalate	C	*	
5902-51-2	5-Chloro-3-(1,1-dimethylethyl)-6-methyl-2,4(1H,3H)-pyrimidinedione		X	1995
5902-51-2	Terbacil		313	1995
5952-26-1	Ethanol,2,2-oxybis,dicarbamate (diethylene glycol,dicarbamate)	C		
5972-73-6	Ammonium oxalate	C		
6009-70-7	Ammonium oxalate	C		1992
6369-96-6	2,4,5-T amines	C		1992
6369-97-7	2,4,5-T amines	C		1992
6459-94-5	C.I. Acid Red 114		313	1995

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CAS	NAME	C	313	ADD
6533-73-9	Thallium(I) carbonate	C	*	1992
6533-73-9	Thallous carbonate	C	*	
7005-72-3	4-Chlorophenyl phenyl ether	C	*	1992
7287-19-6	N,N'-Bis(1-methylethyl)-6-methylthio-1,3,5-triazine-2,4-diamine		X	1995
7287-19-6	Prometryn		313	
7421-93-4	Endrin aldehyde	C		1992
7428-48-0	Lead stearate	C	*	1992
7429-90-5	Aluminum (fume or dust)		313	1990
7439-92-1	Lead	C	313	1990
7439-96-5	Manganese		313	1990
7439-97-6	Mercury	C	313	1990
7440-02-0	Nickel	C	313	1990
7440-22-4	Silver – file to EPA ONLY		313	1990
7440-23-5	Sodium	C		1992
7440-28-0	Thallium	C	313	
7440-36-0	Antimony	C	313	
7440-38-2	Arsenic	C	313	1990
7440-39-3	Barium		313	1990
7440-41-7	Beryllium	C	313	1990
7440-43-9	Cadmium	C	313	1990
7440-47-3	Chromium	C	313	1990
7440-48-4	Cobalt		313	1990
7440-50-8	Copper – reportable to EPA ONLY		313	1990
7440-62-2	Vanadium (except when in alloy)		313	1990
7440-66-6	Zinc (fume or dust)	C	313	1990
7446-08-4	Selenium dioxide	C	*	
7446-14-2	Lead sulfate	C	*	1992
7446-18-6	Thallium(I) sulfate	C	*	1992
7446-18-6	Thallous sulfate	C	*	1992
7446-27-7	Lead phosphate	C	*	1992
7447-39-4	Cupric chloride	C	*	1992
7488-56-4	Selenium sulfide	C	*	1992
7550-45-0	Titanium chloride (TiCl4) (T-4)-	C	X	1990
7550-45-0	Titanium tetrachloride	C	313	1990
7558-79-4	Sodium phosphate, dibasic	C		1992
7601-54-9	Sodium phosphate, tribasic	C		1993
7631-89-2	Sodium arsenate	C	*	1993
7631-90-5	Sodium bisulfite	C		1993
7632-00-0	Sodium nitrite	C	313	1993
7645-25-2	Lead arsenate	C	*	1993
7646-85-7	Zinc chloride	C	*	1993
7647-01-0	Hydrochloric acid	C		1990
7647-01-0	Hydrogen chloride (anhydrous)	C	X	1990
7647-01-0	Hydrogen chloride (gas only)	C	X	1990
7647-18-9	Antimony pentachloride	C	*	1993
7664-38-2	Phosphoric acid	C		1990
7664-39-3	Hydrofluoric acid	C	X	
7664-39-3	Hydrofluoric acid (conc. 50% or greater)	C	X	
7664-39-3	Hydrogen fluoride	C	313	1990
7664-39-3	Hydrogen fluoride (anhydrous)	C	X	1990
7664-41-7	Ammonia	C	313	1990

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7664-93-9	Sulfuric acid	C		1995
7681-49-4	Sodium fluoride	C		1993
7681-52-9	Sodium hypochlorite	C		1993
7696-12-0	2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl ester		X	1995
7696-12-0	Tetramethrin		313	1995
7697-37-2	Nitric acid	C	313	1990
7697-37-2	Nitric acid (conc 80% or greater)	C	X	1990
7699-45-8	Zinc bromide	C	*	1993
7705-08-0	Ferric chloride	C		1993
7718-54-9	Nickel chloride	C	*	1993
7719-12-2	Phosphorous trichloride	C		1993
7720-78-7	Ferrous sulfate	C	*	1993
7722-64-7	Potassium permanganate	C	*	1993
7723-14-0	Phosphorus	C		1993
7723-14-0	Phosphorus (yellow or white)	C	313	1990
7726-95-6	Bromine		313	1995
7733-02-0	Zinc sulfate	C		1993
7738-94-5	Chromic acid	C	*	1993
7758-01-2	Potassium bromate		313	1995
7758-29-4	Sodium phosphate, tribasic	C		1993
7758-94-3	Ferrous chloride	C		1993
7758-95-4	Lead chloride	C	*	1993
7758-98-7	Cupric sulfate	C	*	1993
7761-88-8	Silver nitrate	C	*	1993
7773-06-0	Ammonium sulfamate	C		1993
7778-39-4	Arsenic acid	C	*	1993
7778-44-1	Calcium arsenate	C	*	1993
7778-50-9	Potassium bichromate	C	*	1993
7778-54-3	Calcium hypochlorite	C		1993
7779-86-4	Zinc hydrosulfite	C	*	1993
7779-88-6	Zinc nitrate	C	*	1993
7782-41-4	Fluorine	C	313	1993
7782-49-2	Selenium	C	313	1990
7782-50-5	Chlorine	C	313	1990
7782-63-0	Ferrous sulfate	C		1993
7782-82-3	Sodium selenite	C	*	1993
7782-86-7	Mercurous nitrate	C	*	1993
7783-00-8	Selenious acid	C	*	1993
7783-35-9	Mercuric sulfate	C	*	1993
7783-46-2	Lead fluoride	C	*	1993
7783-49-5	Zinc fluoride	C	*	1993
7783-50-8	Ferric fluoride	C		1993
7783-56-4	Antimony trifluoride	C	*	1993
7784-34-1	Arsenous trichloride	C	*	1993
7784-40-9	Lead arsenate	C	*	1993
7784-41-0	Potassium arsenate	C	*	1993
7784-46-5	Sodium arsenite	C	*	1993
7785-84-4	Sodium phosphate, tribasic	C		1993
7786-34-7	Mevinphos	C	313	1993
7786-81-4	Nickel sulfate	C	*	1993
7787-47-5	Beryllium chloride	C	*	1993
7787-49-7	Beryllium fluoride	C	*	1993
7787-55-5	Beryllium nitrate	C	*	1993

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CAS	NAME	C	313	ADD
7788-98-9	Ammonium chromate	C	*	1993
7789-00-6	Potassium chromate	C	*	1993
7789-42-6	Cadmium bromide	C	*	1993
7789-43-7	Cobaltous bromide	C	*	1993
7789-61-9	Antimony tribromide	C	*	1993
7790-94-5	Chlorosulfonic acid	C		1993
7791-12-0	Thallium chloride TlCl	C	*	1993
7791-12-0	Thallous chloride	C	*	1993
7803-51-2	Phosphine	C	313	1993
7803-55-6	Ammonium vanadate	C		1993
8001-35-2	Camphechlor	C	X	
8001-35-2	Camphene, octachloro-	C	X	1990
8001-35-2	Toxaphene	C	313	1990
8001-58-9	Creosote	C	313	1990
8003-19-8	Dichloropropane - Dichloropropene (mixture)	C		1993
8003-34-7	Pyrethrins	C		1993
8014-95-7	Oleum (fuming sulfuric acid)	C		1993
8014-95-7	Sulfuric acid (fuming)	C		1993
8014-95-7	Sulfuric acid, mixture with sulfur trioxide	C		1993
9006-42-2	Metiram		313	1995
9016-87-9	Polymeric diphenylmethane diisocyanate		313*	1995
10022-70-5	Sodium hypochlorite	C		1993
10025-87-3	Phosphorus oxychloride	C		1993
10025-87-3	Phosphoryl chloride	C		1993
10025-91-9	Antimony trichloride	C	*	1993
10026-11-6	Zirconium tetrachloride	C		1993
10028-15-6	Ozone		313	1995
10028-22-5	Ferric sulfate	C		
10031-59-1	Thallium sulfate	C	*	
10034-93-2	Hydrazine sulfate		313	1990
10039-32-4	Sodium phosphate, dibasic	C		
10043-01-3	Aluminum sulfate	C		1993
10045-89-3	Ferrous ammonium sulfate	C		1993
10045-94-0	Mercuric nitrate	C	*	1993
10049-04-4	Chlorine dioxide		313	1990
10049-04-4	Chlorine oxide (ClO2)		X	1990
10049-05-5	Chromous chloride	C	*	
10061-02-6	trans-1,3-Dichloropropene		313	1995
10099-74-8	Lead nitrate	C	*	1993
10101-53-8	Chromic sulfate	C	*	1993
10101-63-0	Lead iodide	C	*	1993
10101-89-0	Sodium phosphate, tribasic	C		1993
10102-06-4	Uranyl nitrate	C	*	1993
10102-18-8	Sodium selenite	C	*	1993
10102-43-9	Nitric oxide	C		1993
10102-43-9	Nitrogen oxide (NO)	C		1993
10102-44-0	Nitrogen dioxide	C		1993
10102-45-1	Thallium(I) nitrate	C	*	1993
10102-48-4	Lead arsenate	C	*	1993
10108-64-2	Cadmium chloride	C	*	
10124-50-2	Potassium arsenite	C	*	1993
10124-56-8	Sodium phosphate, tribasic	C		1993
10140-65-5	Sodium phosphate, dibasic	C		1993

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CAS	NAME	C	313	ADD
10192-30-0	Ammonium bisulfite	C		1993
10196-04-0	Ammonium sulfite	C		
10222-01-2	2,2-Dibromo-3-nitrilopropionamide		313	1995
10294-34-5	Borane, trichloro-		X	1995
10294-34-5	Boron trichloride		313	1995
10347-54-3	1,4-Bis(methylisocyanate)cyclohexane		313*	1995
10361-89-4	Sodium phosphate, tribasic	C		1993
10380-29-7	Cupric sulfate, ammoniated	C	*	
10415-75-5	Mercurous nitrate	C	*	
10421-48-4	Ferric nitrate	C	*	
10453-86-8	5-(Phenylmethyl)-3-furanyl)methyl 2,2-dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylate		X	1995
10453-86-8	Resmethrin		313	1995
10544-72-6	Nitrogen dioxide	C		
10588-01-9	Sodium bichromate	C	*	
10605-21-7	Carbamic acid, 1H-benzimidazol-2-yl,methyl ester (carbendazim)	C		
11096-82-5	Aroclor 1260	C		
11097-69-1	Aroclor 1254	C		1993
11104-28-2	Aroclor 1221	C		1993
11115-74-5	Chromic acid	C	*	
11141-16-5	Aroclor 1232	C		1993
12002-03-8	Cupric acetoarsenite	C		1993
12002-03-8	Paris green	C		1993
12039-52-0	Selenious acid, dithallium(1+) salt	C	*	1993
12054-48-7	Nickel hydroxide	C	*	1993
12122-67-7	Carbamodithioic acid, 1,2-ethanediylbis-, zinc complex		X	1990
12122-67-7	Zineb		313	1990
12125-01-8	Ammonium fluoride	C		1993
12125-02-9	Ammonium chloride	C		1993
12135-76-1	Ammonium sulfide	C		1993
12427-38-2	Carbamodithioic acid, 1,2-ethanediylbis-, manganese complex		X	
12427-38-2	Maneb		313	1990
12672-29-6	Aroclor 1248	C		
12674-11-2	Aroclor 1016	C		1993
12771-08-3	Sulfur monochloride	C		1993
13194-48-4	Ethoprop		313	1995
13194-48-4	Ethoprophos		X	1995
13194-48-4	Phosphorodithioic acid O-ethyl S,S-dipropyl ester		X	1995
13356-08-6	Fenbutatin oxide		313	1995
13356-08-6	Hexakis(2-methyl-2-phenylpropyl)distannoxane		X	1995
13463-39-3	Nickel carbonyl	C	*	1993
13463-40-6	Iron carbonyl (Fe(CO)5), (TB-5-11)-		X	
13463-40-6	Iron, pentacarbonyl-		313	1995
13474-88-9	1,1-Dichloro-1,2,2,3,3-pentafluoropropane		313	1995
13474-88-9	HCFC-225cc		X	
13560-99-1	2,4,5-T salts	C		1993
13597-99-4	Beryllium nitrate	C	*	1993
13684-56-5	Desmedipham		313	1995

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13746-89-9	Zirconium nitrate	C	*	1993
13765-19-0	Calcium chromate	C	*	1993
13814-96-5	Lead fluoborate	C	*	
13826-83-0	Ammonium fluoborate	C		1993
13952-84-6	sec-Butylamine	C		1993
14017-41-5	Cobaltous sulfamate	C	*	1993
14216-75-2	Nickel nitrate	C	*	
14258-49-2	Ammonium oxalate	C		1993
14307-35-8	Lithium chromate	C	*	
14307-43-8	Ammonium tartrate	C		1993
14324-55-1	Zinc, bis(diethylcarbamodithioato-S,S)-(ethyl ziram)	C	*	
14484-64-1	Ferbam		313	
14484-64-1	Tris(dimethylcarbamodithioato-S,S')iron		X	1995
14639-97-5	Zinc ammonium chloride	C	*	1993
14639-98-6	Zinc ammonium chloride	C	*	1993
14644-61-2	Zirconium sulfate	C		1993
15339-36-3	Manganese, bis(dimethylcarbamodithioato-S,S)-(manganesedimethyldithiocarbamate)	C	*	
15646-96-5	2,4,4-Trimethylhexamethylene diisocyanate		313*	1995
15699-18-0	Nickel ammonium sulfate	C	*	1993
15739-80-7	Lead sulfate	C	*	1993
15950-66-0	2,3,4-Trichlorophenol	C	*	
15972-60-8	Alachlor		313	
16071-86-6	C.I. Direct Brown 95		313	1990
16543-55-8	N-Nitrosonornicotine		313	1990
16721-80-5	Sodium hydrosulfide	C		1993
16752-77-5	Ethanimidothioic acid, N-[[methylamino)carbonyl]	C		
16752-77-5	Methomyl	C		
16871-71-9	Zinc silicofluoride	C	*	
16919-19-0	Ammonium silicofluoride	C		1993
16923-95-8	Zirconium potassium fluoride	C		1993
16938-22-0	2,2,4-Trimethylhexamethylene diisocyanate		313*	1995
17702-57-7	Methanimidamide, N,N-dimethyl-N-[2-methyl-4-[[(methylaino)carbonyl]oxy]phenol]-(Formparanate)	C		
17804-35-2	Benomyl		313	1995
18883-66-4	D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)-carbo	C		1993
19044-88-3	4-(Dipropylamino)-3,5-dinitrobenzenesulfonamide		X	1995
19044-88-3	Oryzalin		313	1995
19666-30-9	3-(2,4-Dichloro-5-(1-methylethoxy)phenyl)-5-(1,1-dimethylethyl)-1,3,4-oxadiazol-2(3H)-one		X	1995
19666-30-9	Oxydiazon		313	1995
20325-40-0	3,3'-Dimethoxybenzidine dihydrochloride		313	1995

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CAS	NAME	C	313	ADD
20325-40-0	o-Dianisidine dihydrochloride		X	1995
20354-26-1	2-(3,4-Dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione		X	1995
20354-26-1	Methazole		313	1995
20816-12-0	Osmium oxide OsO4 (T-4)-	C	X	1990
20816-12-0	Osmium tetroxide	C	313	1990
20830-81-3	Daunomycin	C		
20859-73-8	Aluminum phosphide	C	313	1993
21087-64-9	Metribuzin		313	1995
21725-46-2	Cyanazine		313	1995
22781-23-3	2,2-Dimethyl-1,3-benzodioxol-4-ol methylcarbamate		X	1995
22781-23-3	Bendiocarb		313	1995
22961-82-6	1,3-Benzodioxol-4-ol,2,2-dimethyl-,(bendiocarbphenol)	C		
23135-22-0	Ethanimidothoic acid, 2-(dimethylamino)-N-[[(methylamino)carbonyl]oxy]-2-oxo-, methyl ester (oxamyl)	C		
23422-53-9	Methanimidamide, N,N-dimethyl-N-[3-[[(methylamino)carbonyl]oxylphenyl]-,monohydrochioride (formetanate hydrochloride)	C		
23564-05-8	Thiophanate-methyl		313	1995
23564-06-9	(1,2-Phenylenebis(iminocarbonothioyl)) biscarbamic acid diethyl ester		X	1995
23564-06-9	Thiophanate ethyl		313	1995
23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl	C	X	1993
23950-58-5	Pronamide	C	313	
25154-54-5	Dinitrobenzene (mixed isomers)	C		
25154-55-6	Nitrophenol (mixed isomers)	C		1993
25155-30-0	Sodium dodecylbenzenesulfonate	C		1993
25167-82-2	Trichlorophenol	C	*	
25168-15-4	2,4,5-T esters	C		
25168-26-7	2,4-D Esters	C		
25311-71-1	2-((Ethoxyl((1-methylethyl)amino]phosphinothioyl]oxy) benzoic acid 1-methylethyl ester		X	1995
25311-71-1	Isofenphos		313	1995
25321-14-6	Dinitrotoluene (mixed isomers)	C	313	
25321-22-6	Dichlorobenzene	C	X	
25321-22-6	Dichlorobenzene (mixed isomers)	C	313	
25376-45-8	Diaminotoluene (mixed isomers)	C	313	1990
25376-45-8	Toluenediamine	C	X	1990
25550-58-7	Dinitrophenol	C		1993
26002-80-2	2,2-Dimethyl-3-(2-methyl-1-propenyl)cyclopropanecarboxylic acid (3-phenoxyphenyl)methyl ester		X	1995
26002-80-2	Phenothrin		313	
26264-06-2	Calcium dodecylbenzenesulfonate	C		

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26419-73-8	1,3-Dithiolane-2-carboxaldehyde, 2,4-dimethyl-,O-[(methylamino)carbonyl]oxime (tripate)	C		
26471-62-5	Benzene, 1,3-diisocyanatomethyl-	C	X	1990
26471-62-5	Toluene diisocyanate (unspecified isomer)	C	X	
26471-62-5	Toluenediisocyanate (mixed isomers)	C	313	
26628-22-8	Sodium azide (Na(N3))	C	313	
26638-19-7	Dichloropropane	C		
26644-46-2	N,N'-(1,4-Piperazinediylbis(2,2,2-trichloroethylidene)) bisformamide		X	1995
26644-46-2	Triforine		313	
26952-23-8	Dichloropropene	C		
27176-87-0	Dodecylbenzenesulfonic acid	C		
27314-13-2	4-Chloro-5-(methylamino)-2-[3-(trifluoromethyl)phenyl]-3(2H)-pyridazinone		X	1995
27314-13-2	Norflurazon		313	1995
27323-41-7	Triethanolamine dodecylbenzene sulfonate	C		1993
27774-13-6	Vanadyl sulfate	C		1993
28057-48-9	d-trans-Allethrin		313	1995
28057-48-9	d-trans-Chrysanthemic acid of d-allethrone		X	1995
28249-77-6	Carbamic acid, diethylthio-, S-(p-chlorobenzyl)		X	1995
28249-77-6	Thiobencarb		313	1995
28300-74-5	Antimony potassium tartrate	C	*	1993
28407-37-6	C.I. Direct Blue 218		313	1995
29082-74-4	Octachlorostyrene		313	
29232-93-7	O-(2-(Diethylamino)-6-methyl-4-pyrimidinyl)-O,O-dimethyl phosphorothioate		X	1995
29232-93-7	Pirimiphos methyl		313	1995
30525-89-4	Paraformaldehyde	C		
30558-43-1	Ethanimidothioci acid, 2-(dimethylamino-n-hydroxy-2-oxo-, methyl ester (A2213)	C		
30560-19-1	Acephate		313	1995
30560-19-1	Acetylphosphoramidothioic acid O,S-dimethyl ester		X	1995
31218-83-4	3-((Ethylamino)methoxyphosphinothioyl)oxy)-2-butenoic acid, 1-methylethyl ester		X	1995
31218-83-4	Propetamphos		313	1995
32534-95-5	2,4,5-TP esters		C	
33089-61-1	Amitraz			313
33213-65-9	beta - Endosulfan		C	
34014-18-1	N-(5-(1,1-Dimethylethyl)-1,3,4-thiadiazol-2-yl)-N,N'-dimethylurea		X	1995
34014-18-1	Tebuthiuron		313	1995

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34077-87-7	Dichlorotrifluoroethane		313	
35367-38-5	Diflubenzuron		313	1995
35400-43-2	O-Ethyl O-(4-(methylthio)phenyl)phosphorodithioic acid S-propyl ester		X	1995
35400-43-2	Sulprofos			313
35554-44-0	1-(2-(2,4-Dichlorophenyl)-2-(2-propenyloxy)ethyl)-1H-imidazole		X	1995
35554-44-0	Imazalil			313
35691-65-7	1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile		313	1995
36478-76-9	Uranyl nitrate	C	*	
37211-05-5	Nickel chloride	C	*	1993
38661-72-2	1,3-Bis(methylisocyanate)cyclohexane		313*	1995
38727-55-8	Diethatyl ethyl		313	1995
39156-41-7	2,4-Diaminoanisole sulfate		313	1990
39196-18-4	Thiofanox	C		1993
39300-45-3	Dinocap		313	
39515-41-8	2,2,3,3-Tetramethylcyclopropane carboxylic acid cyano(3-phenoxyphenyl)methyl ester		X	1995
39515-41-8	Fenpropathrin		313	1995
40487-42-1	N-(1-Ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine		X	1995
40487-42-1	Pendimethalin		313	1995
41198-08-7	O-(4-Bromo-2-chlorophenyl)-O-ethyl-S-propylphosphorothioate		X	1995
41198-08-7	Profenofos		313	1995
41766-75-0	3,3'-Dimethylbenzidine dihydrofluoride		313	1995
41766-75-0	o-Tolidine dihydrofluoride		X	1995
42504-46-1	Isopropanolamine dodecylbenzene sulfonate	C		1993
42874-03-3	Oxyfluorfen		313	1995
43121-43-3	1-(4-Chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone		X	1995
43121-43-3	Triadimefon		313	1995
50471-44-8	3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione		X	1995
50471-44-8	Vinclozolin		313	1995
51026-28-9	Carbamodithioic acid, hydroxymethyl)methyl-,monopotassium salt (potassium n-hydroxymethyl-n-methyldithiocarbamate)	C		
51235-04-2	Hexazinone		313	1995
51338-27-3	2-(4-(2,4-Dichlorophenoxy)phenoxy)propanoic acid, methyl ester		X	1995
51338-27-3	Diclofop methyl		313	1995
51630-58-1	4-Chloro-alpha-(1-methylethyl)benzeneacetic acid cyano(3-phenoxyphenyl)methyl ester		X	1995
51630-58-1	Fenvalerate		313	1995
52628-25-8	Zinc ammonium chloride	C	*	
52645-53-1	3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropane carboxylic		X	1995

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	acid, (3-phenoxy-phenyl)methyl ester			
52645-53-1	Permethrin			313
52652-59-2	Lead stearate	C	*	
52740-16-6	Calcium arsenite	C	*	
52888-80-9	Carbamothioic acid, dipropyl-, S-(phenylmethyl) ester (prosulfocarb)	C		
52888-80-9	Carbomothioic acid, dipropyl-, S-(phenylmethyl) ester (prosulfocarb)	C		
53404-19-6	2,4-(1H,3H)-Pyrimidinedione, 5-bromo-6-methyl-3-(1-methylpropyl), lithium salt		X	1995
53404-19-6	Bromacil, lithium salt		313	1995
53404-37-8	2,4-D 2-ethyl-4-methylpentyl ester		313	1995
53404-60-7	Dazomet, sodium salt		313	1995
53404-60-7	Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione, ion(1-), sodium		X	1995
53467-11-1	2,4-D Esters	C		1993
53469-21-9	Aroclor 1242	C		1993
55285-14-8	Carbamic acid, [(dibutylamino)thio]methyl-,2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester(carbosulfan)	C		
55290-64-7	2,3,-Dihydro-5,6-dimethyl-1,4-dithiin 1,1,4,4-tetraoxide		X	1995
55290-64-7	Dimethipin		313	
55406-53-6	3-Iodo-2-propynyl butylcarbamate		313	1995
55488-87-4	Ferric ammonium oxalate	C		
56189-09-4	Lead stearate	C	*	
57213-69-1	Triclopyr triethylammonium salt		313	1995
59669-26-0	Thiodicarb		313	
60168-88-9	.alpha.-(2-Chlorophenyl)-.alpha.-4-chlorophenyl)-5-pyrimidinemethanol		X	1995
60168-88-9	Fenarimol		313	
60207-90-1	1-(2-(2,4-Dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl)-methyl-1H-1,2,4,-triazole		X	1995
60207-90-1	Propiconazole		313	1995
61792-07-2	2,4,5-T esters	C		
62476-59-9	5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitrobenzoic acid, sodium salt		X	1995
62476-59-9	Acifluorfen, sodium salt		313	1995
63938-10-3	Chlorotetrafluoroethane		313	
64902-72-3	2-Chloro-N-(((4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl)benzenesulfonamide		X	1995
64902-72-3	Chlorsulfuron		313	1995
64969-34-2	3,3'-Dichlorobenzidine sulfate		313	1995
66441-23-4	2-(4-((6-Chloro-2-benzoxazolylen)oxy)phenoxy)propanoic acid, ethyl ester		X	1995
66441-23-4	Fenoxaprop ethyl		313	1995
67485-29-4	Hydramethylnon		313	1995

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C: CERCLA Chemical **– If a chemical is noted as ONLY a CERCLA chemical, then a STATE ONLY Form R as well as a Form S must be completed and submitted to DEP with your toxics use report**.
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The Massachusetts Toxics Use Reduction Act, Reportable Chemical List for Calendar Year 2005
Sorted Numerically by CAS

CAS	NAME	C	313	ADD
67485-29-4	Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone(3-(4-(trifluoromethyl)phenyl)-1-(2-(4-(trifluoromethyl)phenyl)ethenyl)-2-propenylidene)hydrazone		X	1995
68085-85-8	3-(2-Chloro-3,3,3-trifluoro-1-propenyl)-2,2-Dimethylcyclopropanecarboxylic acid cyano(3-phenoxyphenyl) methyl ester		X	1995
68085-85-8	Cyhalothrin		313	1995
68359-37-5	3-(2,2-Dichloroethenyl)-2,2-dimethylcyclopropanecarboxylic acid, cyano(4-fluoro-3-phenoxyphenyl)methyl ester		X	
68359-37-5	Cyfluthrin		313	
69409-94-5	Fluvalinate		313	
69409-94-5	N-(2-Chloro-4-(trifluoromethyl)phenyl)-DL-valine(+)-cyano(3-phenoxyphenyl)methyl ester		X	1995
69806-50-4	2-(4-(5-(Trifluoromethyl)-2-pyridinyl]oxy]-phenoxy)propanoic acid, butyl ester		X	1995
69806-50-4	Fluazifop butyl		313	1995
71751-41-2	Abamectin		313	
71751-41-2	Avermectin B1		X	1995
72178-02-0	5-(2-Chloro-4-(trifluoromethyl)phenoxy)-N-methylsulfonyl)-2-nitrobenzamide		X	1995
72178-02-0	Fomesafen		313	1995
72490-01-8	(2-(4-Phenoxy-phenoxy)-ethyl)carbamic acid ethyl ester		X	1995
72490-01-8	Fenoxycarb		313	1995
74051-80-2	2-(1-(Ethoxyimino) butyl)-5-(2-(ethylthio)propyl)-3-hydroxyl-2-cyclohexen-1-one		X	1995
74051-80-2	Sethoxydim		313	1995
75790-84-0	4-Methyldiphenylmethane-3,4-diisocyanate		313*	1995
75790-87-3	2,4'-Diisocyanatodiphenyl sulfide		313*	1995
76578-14-8	2-(4-((6-Chloro-2-quinoxalinyl)oxy]phenoxy) propanoic acid ethyl ester		X	1995
76578-14-8	Quizalofop-ethyl		313	1995
77501-63-4	5-(2-Chloro-4-(trifluoromethyl)phenoxy)-2-nitro-2-ethoxy-1-methyl-2-oxoethyl ester		X	1995
77501-63-4	Lactofen		313	1995
82657-04-3	Bifenthrin		313	1995
88671-89-0	.alpha.-Butyl-.alpha.-(4-chlorophenyl)-1H-1,2,4-triazole-1-propanenitrile		X	1995
88671-89-0	Myclobutanil		313	1995
90454-18-5	Dichloro-1,1,2-trifluoroethane		313	
90982-32-4	Chlorimuron ethyl		313	1995
90982-32-4	Ethyl-2-((((4-chloro-6-methoxyprimidin-2-yl)-carbonyl)-amino]sulfonyl)benzoate		X	1995

CAS: Chemical Abstract Service Registry Number
313: EPCRA 313 Reportable Chemical, X: EPCRA 313 Synonym,* : member of a chemical category – should not be reported as an individual chemical.
C: CERCLA Chemical **– If a chemical is noted as ONLY a CERCLA chemical, then a STATE ONLY Form R as well as a Form S must be completed and submitted to DEP with your toxics use report**.
NOTE: Some EPA Chemicals may have been delisted from the EPCRA 313 list, but the chemical ***MAY STILL*** be listed as a CERCLA chemical.

The Massachusetts Toxics Use Reduction Act, Reportable Chemical List for Calendar Year 2005
Sorted Numerically by CAS

CAS	NAME	C	313	ADD
101200-48-0	2-(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)-methylamino)carbonyl)amino)sulfonyl)-, methyl ester		X	1995
101200-48-0	Tribenuron methyl		313	1995
111512-56-2	1,1-Dichloro-1,2,3,3,3-pentafluoropropane		313	1995
111512-56-2	HCFC-225eb		X	1995
111984-09-9	3,3'-Dimethoxybenzidine hydrochloride		313	1995
111984-09-9	o-Dianisidine hydrochloride		X	1995
127564-92-5	Dichloropentafluoropropane		313	1995
128903-21-9	HCFC-225aa		X	1995
134190-37-7	Diethyldiisocyanatobenzene		313*	1995
136013-79-1	1,3-Dichloro-1,1,2,3,3-pentafluoropropane		313	1995
136013-79-1	HCFC-225ea		X	1995

CAS: Chemical Abstract Service Registry Number
313: EPCRA 313 Reportable Chemical, X: EPCRA 313 Synonym,* : member of a chemical category – should not be reported as an individual chemical.
C: CERCLA Chemical **– If a chemical is noted as ONLY a CERCLA chemical, then a STATE ONLY Form R as well as a Form S must be completed and submitted to DEP with your toxics use report**.
NOTE: Some EPA Chemicals may have been delisted from the EPCRA 313 list, but the chemical ***MAY STILL*** be listed as a CERCLA chemical.

Appendix C

RECALCULATING BRIs AND ERIs WHEN PRODUCTION UNITS OR UNITS OF PRODUCT HAVE BEEN REDEFINED

If you make a change in your unit of product or how you define your production units, you will need to revise your Byproduct Reduction Index (BRI) and your Emissions Reduction Index (ERI). The key question is: Did your facility implement any toxics use reduction (TUR) efforts between the base year and the year of the change? If not, you are not required to re-calculate the BRI and the ERI for previous years. You can assume that the amount of byproduct per unit of product for this year was the same as in the base year. Measure progress against that number from now on. (The same is true of the ERI.)

If your facility did implement TUR, you need to adjust your byproducts per unit of product and your emissions per unit of product numbers from the base year. If you have sufficient information to recalculate those numbers, you should do so. If you do not have sufficient information, you should use an estimate.

The following is one way to do this estimate. First, estimate what this year's byproduct from the production unit would have been if you had not implemented TUR. Then divide that number by this year's number of products. Do the same for emissions.

The result is a byproduct per unit of product amount (and an emissions per unit of product amount) that you can assume holds true for the base year. You should measure progress against that amount from now on. If you have any questions, contact MassDEP at 617-292-5711.

When you submit your toxics use report, you should note that you have recalculated you BRIs and ERIs in a cover letter or on the Form S. Keep the documentation of the change in your records.

Appendix D

GENERAL REPORTING ERRORS

1. The contents of a toxics use report submitted to MassDEP is not complete.

A complete toxics use report includes the following:

- ✓ Form S Cover Sheet
- ✓ Form R (or Form A, however Form As are not permitted for PBTs) for each chemical
- ✓ Form S for each chemical
- ✓ Fee worksheet
- ✓ TURA Billing Information Form

Incomplete TURA reporting may result in late fees, enforcement and fines.

Each facility must file one Form S cover sheet for the facility as a whole. For each chemical reported, a Form R and Form S must be completed. For ease of review, please place the Form R on top of the Form S for each chemical reported

COMMON REPORTING ERRORS

1. Total chemical use as reported in Sections 1 c, d, and e of the Form S is not equal to the sum of the amounts generated as byproduct (Section 1 f) and shipped in product (Section 1 g).

Section of the report that may need correcting: FORM S: Section 1: Facility-wide Use of Chemical

Generally, there is a materials balance between chemical inputs and outputs on a facility-wide basis:

manufactured + processed + otherwise used = byproduct + shipped in product

If this is not the case on all of your forms, you should have checked one of the explanations (i.e., chemical was recycled on-site) in Section 2 on the Form. Otherwise, your materials accounting for the chemical may need to be checked.

2. The Byproduct Reduction Index and/or the Emissions Reduction Index reported on the Form S is significantly less than 0 or greater than 100.

Sections of the report that may need correcting: FORM S: Section 4, item d. (Byproduct Reduction Index) and/or item e. (Emissions Reduction Index) (Please refer to page 24 and 25 of the reporting instructions.)

There may be an error in calculating either the BRI or the ERI if they are significantly less than 0 or greater than 100. A BRI and/or ERI significantly below 0 indicates either a large increase in byproduct generation and/or emissions, or that the calculation of the BRI and ERI is incorrect. In the latter case, you will need to check your BRI and ERI calculations (e.g., the unit of product and/or production unit may not be designated properly).

The BRI or ERI cannot be greater than 100, since this value represents the total elimination of the chemical. If your BRI and ERI is greater than 100, you will need to recheck your calculations for errors.

3. The Byproduct Reduction Index and the Emissions Reduction Index are not equal.

Sections of the report that may need correcting: FORM S: Section 4, item d. (Byproduct Reduction Index) and/or item e. (Emissions Reduction Index).

Your report may indicate that the BRI does not equal the ERI. These two numbers should be equal unless you are doing destructive treatment (see Section 7 of the Form R), on-site recycling, or waste was not shipped off-site. (Please refer to page 26 of the reporting instructions.)

4. The amount reported as byproduct on the Form S is *less than* the quantities reported in Section 8 (Source Reduction and Recycling Activities) of the Form R.

Sections of the report that may need correcting: FORM S: Section 1, item f: Facility-Wide byproduct generated and/or FORM R: Sections 5 and 6.

Byproduct will usually be equal to, or exceed, transfers and releases, since byproduct is the total quantity of waste that is generated during the production process calculated **before** it has been treated. The only time byproduct is less than transfers and releases is when some byproduct is reported as product on the Form S. (Please refer to pages 19-20 of the instructions.)

5. The amount reported as byproduct on the Form S is *greater than* the quantities reported in Section 8 (Source Reduction and Recycling Activities) of the Form R when there is no on-site energy recovery, recycling, or destructive treatment.

Sections of the report that may need correcting: FORM S: Sections 1 item f: Facility-Wide byproduct generated, Section 2: Optional Questions and/or FORM R: Section 7.

Byproduct is the total quantity of waste that is generated during the production process, calculated **before** it has been treated. If a treatment system destroys some or all of the byproducts, or some of the byproducts are recycled, the reported byproducts will be greater than releases and transfers off-site. If there is no destructive treatment (including energy recovery), on-site recycling, or byproduct reported as product, then

total byproduct on the Form S will be equal to Section 8 of the Form R. (Please refer to pages 19-20 of the instructions.)

6. The current reporting year (2005) is incorrectly entered as the base year.

Section of the report that may need correcting: Form S Section 4, item b. Base Year.

The reporting year of 2005 should only be entered as a base year if the production unit is NEW for 2005 or if you are a new filer for 2005.

Form S Cover Sheet –Common Reporting Error

1. The production unit has been renumbered.

Section of the report that needs to be corrected: FORM S Cover Sheet - Section 4, item a.

While you may add new production unit numbers or change the wording describing a production unit, production unit numbers, once assigned, must not be changed, since this directly affects your BRIs and ERIs. (Please refer to page 15 of the instructions).

Appendix E

QUESTIONS and ANSWERS

GENERAL REPORTING QUESTIONS

1. What happens if we reported last year but are exempt this year?

If your facility does not have to report this year but reported in a previous year, MassDEP recommends that you notify MassDEP in writing and explain why. This will help MassDEP distinguish facilities that are exempt from those that are out of compliance.

Note: The toxics use report cover sheet has an optional section that you may complete if your facility is newly exempt from reporting (see p. 12 of this guidance). You also may send a letter to MassDEP.

2. A company redefines a unit of product and/or a production unit. This results in the need to recalculate BRIs and ERIs, which in turn requires the recalculation of base year information. What should the company do if the data for the base year is insufficient or missing?

If the data for your current base year is either insufficient or missing, you may change your base year to be the earliest year in which you consider your data to be sufficient to provide a meaningful BRI and ERI. You would not be required to change intermediate years.

3. Should the plan update summary be submitted this year?

YES. Plan updates are due in even-numbered calendar years. Your plan update is due July 1, 2006.

4. How would I file a trade secret claim this year?

If you are making a trade secret claim in your 2005 reporting package, please call MassDEP's TURA Program at (617) 292-5711 to request the "Trade Secret Special Instructions". (See p. 11 of the reporting package.)

WASTE TREATMENT CHEMICALS

1. If I claim my whole facility as a production unit, can I include my waste treatment system as part of my production unit?

No. Waste treatment units are not considered manufacturing processes and therefore cannot be included in production units. Companies should track chemicals used in

waste treatment units separately from those used in production units. Companies can report chemical use associated with waste treatment operations in Section 3 of the Form S, Chemicals Used in Waste Treatment Units.

2. What if my waste treatment unit is "hard-piped" or "integral" to my production process, can I then consider it part of my production unit?

No. Waste treatment units are not considered production processes even if they are "integral" to the manufacturing process. Chemicals used in them are reported separately from production units.

3. If I previously reported my waste treatment unit as part of my production unit, what should I do to correct my reporting?

First, you should consider all waste streams previously treated by your waste treatment unit as byproducts from production units in your facility. These byproducts should be allocated back to the production unit where they were generated. Byproducts should then be included in the BRI calculation for the specific production unit in which they were generated.

Chemicals used to perform the waste treatment operations (for example, acids and bases used for pH adjustment) can be reported separately in Section 3 of the Form S. You should continue to use the same production unit and production unit number for the purposes of calculating your BRI. Amounts of byproduct previously not reported should be added to the amounts used to calculate the BRI and ERI for your base year. You would not be required to change intermediate years.

4. When I dump my spent acid process bath, I use it in my waste treatment, as is, without further treatment. Can I report this as byproduct as product?

No. Byproduct as product that is used on site must be used in a manufacturing process to be considered byproduct as product. Amounts of spent acid and base baths that are used to adjust pH in waste treatment operations can be used to reduce facility-wide use of the reportable chemicals. They are still considered byproducts when they leave the production unit.

TUR PLANNER CERTIFICATION

1. How do I receive an application for certification or recertification as a TUR Planner?

Please call 617-556-1011 for a "Planner Certification Package" or "Planner Recertification Package," depending upon your situation. You can also download the Package from MassDEP's web site at www.mass.gov/dep/bwp/dhm/tura/turapubs.htm.

2. Once I receive the TUR Planner application package, if I have questions concerning filling it out, can someone assist me?

Yes. Please call the MassDEP Planner Certification Program at 617-556-1011.

3. Can a planner receive credit for applicable courses taken outside the TURI and OTA curriculum?

Yes, as long as the courses fit the regulatory requirements found in the TUR Planner Guidance Document and in 310 CMR 50.58. Courses offered by either OTA or TURI are usually prior-approved by MassDEP for use by TUR Planners seeking recertification credit. However, Planners do not receive credit by simply attending the pre-approved course; they must apply to MassDEP to actually receive the credit via the "Pre-approval Credit Form" attached to all recertification applications or as part of their completed recertification application.

Any other organization wishing to offer a course(s) pre-approved for credit for TUR Planners for credit may contact the MassDEP Planner Program at 617-556-1011 for more information. MassDEP normally requests some tangible information (e.g., a syllabus, course description and length of time) prior to pre-approving a course for Planner credit. Once again, each Planner attending a pre-approved course and seminar must apply to MassDEP in order to receive the credit. Call the MassDEP Planner Certification Program at 617-556-1011 or download the list of approved courses from the MassDEP TURA web site.

4. How do I find out what courses TURI is offering or planning to offer which are suitable for credit toward recertification?

Information on courses offered by TURI is available on the TURI web site at www.turi.org.

5. Once I take a course certified by MassDEP for to TUR Planner credit, do I still need to apply to MassDEP for credit?

Yes. MassDEP may give a course instructor permission to state that his or her course has been approved by MassDEP for use by TUR Planners for recertification credit. However, in order to receive the credit you must apply to MassDEP. You may wait until you have all the required credits or you may use the "Pre-approval Credit Form" included in the application package to receive credit immediately.

6. Is there a rollover of recertification credits into the next 2-year period allowed for those TUR Planners who have accumulated more than the required credits in any given certification and recertification period?

Generally no, since allowing a rollover of extra credits into the next recertification period would defeat the basic purpose of recertification, which is to keep TUR Planners up-to-date on current TUR planning techniques. However, exceptions may be made in certain situations. For example, an exception could be made for obtaining extra credits by taking a relevant TUR course during the end of a TUR Planner's certification or recertification period. In this case, some of the surplus credits could possibly be used toward the next recertification period.

7. When are TUR Planner examinations held?

There are no set dates for TUR Planner examinations. MassDEP generally offers the examination once each year during late fall (usually in November), after TURI's planner course has been completed. All eligible TUR Planners are notified by mail. Everyone who has taken the TURI planner course since the last planner examination is notified by MassDEP of the upcoming examination. In addition, all examinees who have failed the examination in the past are notified by MassDEP. TURI also announces the pending examination in its planner classes.

8. Can I receive an application for certification or recertification as a TUR Planner via the World Wide Web?

TUR Planners may obtain MassDEP TURA Planner certification material by accessing the permit area of the TURA Web site at:
http://www.mass.gov/dep/toxics/approvals/turforms.htm#cert.

9. Is there a professional organization for TUR Planners?

Yes. The Toxics Use Reduction Planning Association (TURPA) was formed in 1994. About three quarters of the members are from manufacturing facilities, some are consultants, and some belong to state agencies. For more information about TURPA, contact TURPA at 1-888-go-TURPA (1-888-468-8772) or visit their web siteat: http://www.turpa.org.

Appendix F

GUIDANCE DOCUMENT FOR TURA REPORTING AND PLANNING FOR CERTAIN METALS AND METAL ALLOYS

An alloy is a mixture of two or more metals or one or more metals and a nonmetal, as in carbon steel.

Effective reporting year 1995, the TURA Administrative Council delisted certain metals when present in a solid or molten alloy, but not including aerosols. The metals are:

Copper
Nickel
Chromium
Cobalt
Manganese

Effective reporting year 1998, the TURA Administrative Council delisted silver-copper mixture when present in an alloy form, but not including aerosols.

The established definition of an "alloy" requires that metals mixed with the primary metal must be intentionally added to improve its properties. A metallic substance that is pure or contains other metals as impurities is not considered an alloy. Consequently, copper and silver that is pure or that contains small amounts of impurities were not covered by the two Administrative Council delistings described above.

Effective reporting year 1999, however, the Administrative Council delisted pure (i.e., zero valance) copper and pure silver (including forms containing impurities), but not including aerosols.

The delistings for all the metals described above **DO NOT** extend to aerosols, dissolved metals, metal compounds, or metals that are not zero valence throughout the entire production process. Note that aerosols are metal particles that are less than 50 microns in diameter.

These metals have not been delisted from the EPCRA Toxics Release Inventory (TRI) List. Although delisting by the TURA Administrative Council means that no Form S need be submitted, the federal Form R is still required. The Form R submitted to MassDEP should be identified as "federal only."

Guidance

Questions have been raised regarding implementation of these delistings. This guidance has been produced to assist the regulated community in complying with TURA. If you have any remaining questions after reading this document, please contact MassDEP for compliance assistance or the Office of Technical Assistance for further information.

The delisted metals are copper, nickel, chromium, cobalt, manganese and silver. Some of the processes in which those metals might be used are described below with specific guidance.

- Etching processes – When a metal is removed from metal stock through chemical processing, the resultant metal salt is reportable if it is produced in threshold quantities. (In this case, the metal salt is "coincidentally manufactured.") The 25,000-pound threshold would apply if the metal salt were the only reportable chemical; the threshold drops to 10,000 pounds if a facility is using other reportable chemicals. It should be noted that the entire weight of the metal salt is considered when determining whether a threshold has been met, and not just the amount of the metal in the salt. As for the stock itself, any delisted metals contained in it are not reportable.

- Electropolishing operations - The metal salts in solution are reportable as "coincidentally manufactured" if they are produced in threshold quantities. Any delisted metals contained in the stock are not reportable.

- Grinding Operations - The delisted metals are not exempt from reporting when contained in aerosols, i.e., particles less than 50 microns in diameter (in this case, the metal is reported as "processed"). These metals are reportable if they are present in threshold quantities. When determining whether the reporting threshold has been exceeded, only the weight of the listed metal in the aerosol is considered, and not the total weight of the aerosol. Any delisted metals contained in the stock are not reportable.

- Multiple processes - In production units with multiple processes, certain individual processes may produce metal aerosols or metal salts in solution. Those aerosols and metal salts in solution would be reportable if produced in threshold quantities, as described above.

- Alloys in powdered form - If a metal is used in the powdered form, the facility will need to perform a particle size analysis to determine the amount of material less than 50 microns in size. If threshold quantities are produced, the metals are reportable if they are present in particles less than 50 microns in size. When determining whether the reporting threshold has been exceeded, only the weight of the listed metal is considered, and not the total weight of particles.

Relationship Between the Metal Delistings and MassDEP's "Expanded Article" Exemption

In 1994, MassDEP adopted a policy that broadened the article exemption for state reporting purposes. Under the EPCRA article exemption, listed chemicals in an "article" are exempt if the item meets certain criteria, including the requirement that the article must retain its initial thickness or diameter. (See page 4 of this guidance for more information on the article exemption.)

MassDEP's "expanded article exemption" was designed primarily to provide some reporting relief for firms otherwise ineligible for the exemption because they changed the shape of the article. Firms that draw wire are one example.

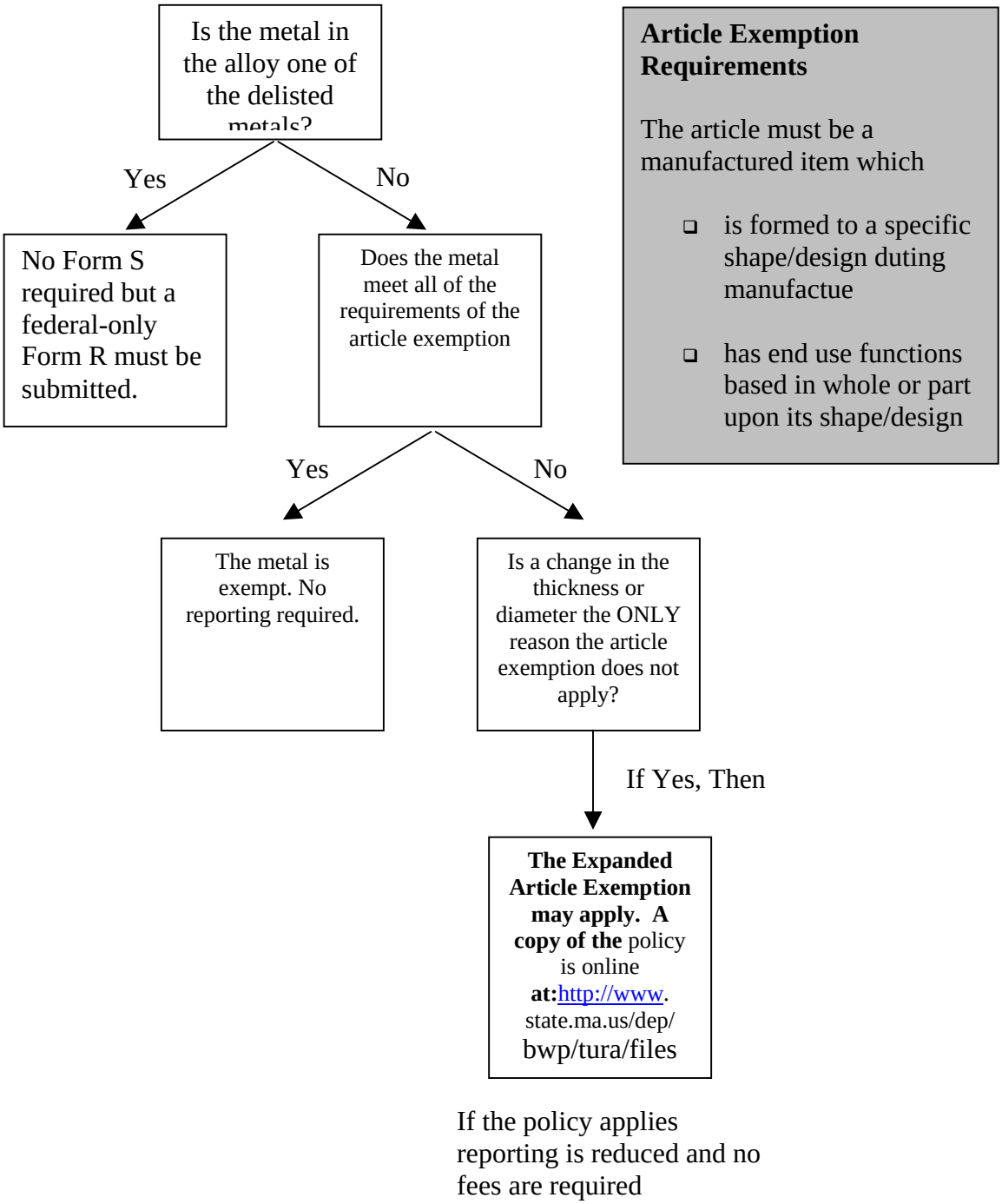
MassDEP's expanded exemption applies to copper and its alloys, as well as steels including stainless steel. It excludes lead.

The policy is still in effect but the Administrative Council metal delistings apply to many of the metals which might be covered by the policy. Depending upon the circumstances, the expanded article exemption could be applicable where a metal fails to meet all the conditions of the delistings.

Example: The metal delisting applies to copper, nickel, chromium, cobalt, manganese and silver. Some stainless steels contain vanadium, which has not been delisted. A firm using such a steel with reportable quantities of vanadium may wish to consult **BWP-94-014 Policy for TURA Reporting and Planning for Certain Metalworking Operations**.

A copy of the policy and more information on the requirements may be obtained on the web at www.mass.gov/dep/bwp/dhm/tura/ or by calling 617-292-5711.

Applying the standard article exemption with the "expanded Article exemption"



Appendix G

INTEGRAL RECYCLING GUIDANCE -UNDER THE TOXICS USE REDUCTION ACT (M.G.L.C 21I)

Introduction

The Toxics Use Reduction Act (TURA) identifies six (6) techniques which constitute toxics use reduction. The sixth technique is "recycling, reuse or extended use of toxics by using equipment or methods which become an integral part of the production unit of concern, including but not limited to filtration and other closed loop methods." TURA also states, in part, that "toxics use reduction shall not include... off-site or out-of-production unit waste recycling." This guidance provides detail on what types of activities are considered "integral recycling" under TURA.

This Appendix also provides general guidance on how each activity is regulated under MassDEP's hazardous waste regulations (310 CMR 30.000). The reader must refer to the specific hazardous waste regulations, separate from this TURA guidance, to assure operational compliance with hazardous waste requirements. Critical terms such as "integral," "production process," "closed loop," "totally enclosed," and others are used differently under different statutes. As such, people must be careful to consider differing requirements to avoid non-compliance problems. Companies should check the regulations themselves or contact MassDEP at 617-292-5711 for further compliance assistance, if needed.

Should this integral recycling guidance result in significant reductions in your 2005 facility-wide use or byproduct figures, please contact MassDEP at 617-292-5711. Such significant changes in reporting can skew TURA trend data analysis and your notification to MassDEP will allow us to adjust our figures to prevent over counting of actual reductions.

DEFINITION

Activities Considered "Integral Recycling" Under This Guidance

- In order for an activity to qualify as "integral recycling" the material must be recycled or reused, not treated. From the TURA perspective, this is important because the statutory language refers to "recycling, reuse or extended use of toxics..." and also because the statutory definition of toxics use reduction specifically excludes anything that is, or that promotes "end-of-pipe treatment."

  If the recycling equipment and piping are permanently connected to a single production unit, the operation is integral. Also, if the recycling equipment is connected via detachable* hoses to a single production unit, the operation is integral.

- Detachable*, portable recycling equipment, directly connected to the production unit while the recycling equipment is in operation, is considered integral. There must be a sealed connection while the unit is in operation.

- If a manufacturing process includes a directly connected holding tank as part of its production unit, and the recycling unit is directly connected to the tank, this qualifies as integral recycling under this policy.

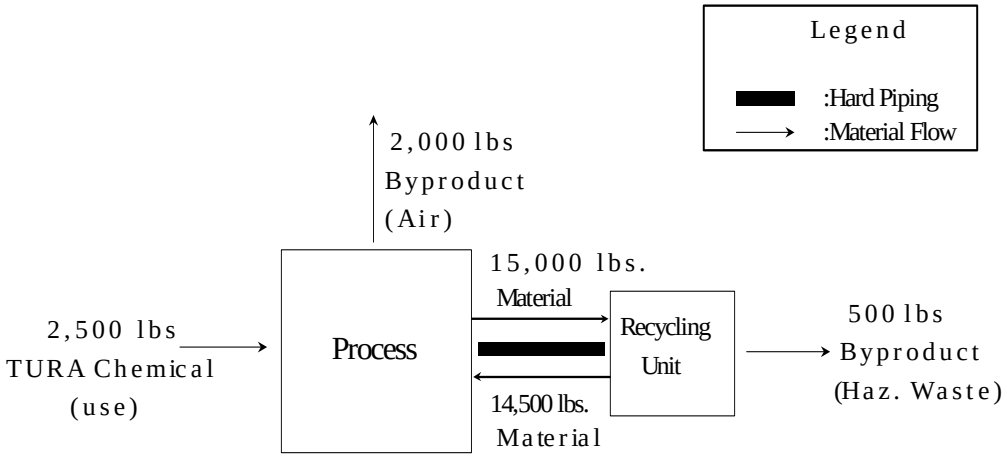
* Whenever detachable pipes are used in conjunction with a recycling unit, a written spill prevention plan must be prepared and kept on file to minimize worker exposure and to prevent spills and leaks when connecting, disconnecting, and operating the recycling unit. This spill prevention plan minimizes any increased risk of worker exposures that may arise from this expanded definition of integral recycling under TURA. TURA filers who do not wish to prepare and keep on file this spill contingency plan should consider the recycling unit (connected via detachable hoses) non-integral under TURA and report accordingly.

INTEGRAL RECYCLING EXAMPLES

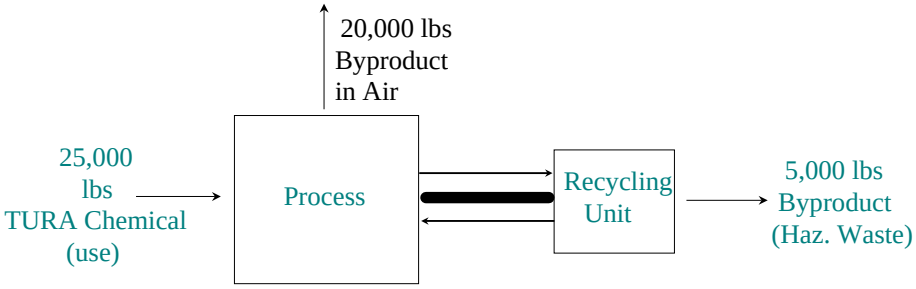
✓Example: 1

A recycling unit which is hard-piped in the process qualifies as integral. The recycling unit is totally enclosed during operation. (Totally enclosed recycling units are units that have been designed, constructed, and operated to prevent spills, leaks or emissions of hazardous materials to the workplace and environment.)

A. This diagram illustrates the materials accounting and quantities generated each time the reportable chemical is an input to this process. (For this example, it occurs ten times each year.)



B. This diagram shows quantities reported annually for this chemical which are integrally recycled in this process.



Description of example process: As shown in diagram A, ten times a year 2,500 lbs of virgin chemical is fed into the process to supplement the 14,500 lbs of integrally recycled chemical which is reintroduced to the process on the same schedule. While parts are being processed using each of ten batches of chemical, 2,000 lbs of byproduct is released into the air. When each batch of chemical is spent, it is pumped through the integrally connected recycling unit which produces 500 lbs of byproduct as hazardous waste per batch. The quantities in diagram B show the yearly amounts of byproduct produced and material processed. Because the unit is integrally connected the chemical recycled is not reported as an input to the process, and spent chemical piped to the recycling unit is not considered byproduct. If any of the recycled solvent can not be used in the process, and is shipped

✓Example: 1 Con't

off-site for reuse without any treatment or recovery, it would be considered byproduct as product and reported in Section 1 item g. of the Form S "Shipped in or as Product." (See section on Byproduct as Product, p.G-6.)

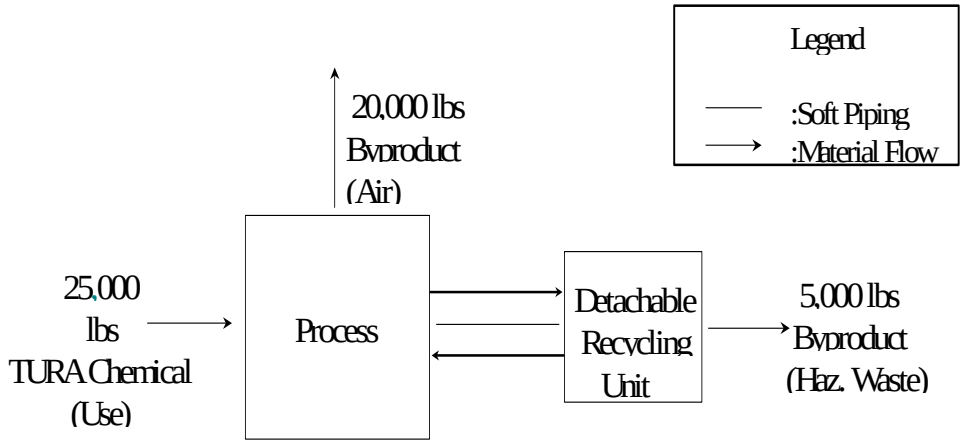
For this example of Integral Recycling, the Form S, Section 1 would be filled out as follows:

c. Manufactured: 0 d. Processed: 0
e. Otherwise Used: **25000** f. Generated as Byproduct: **25000**
g. Shipped in or as Product: 0*

** If any integrally recycled material is shipped as product (byproduct as product), item g. would reflect that quantity.*

✓Example: 2

To qualify as integral recycling, the portable recycling unit must be connected while the recycling unit is in operation via detachable couplings that are appropriate for such use and perform similarly to hard piping. The recycling unit is totally enclosed during operation. A written spill prevention plan must be developed to minimize risk of worker exposure and to prevent spills or leaks when connecting and disconnecting or operating the recycling equipment.



Description of example process: The quantities in the diagram show the yearly amounts of byproduct produced and material processed. Because the unit is integrally connected, the recycled chemical is not reported as an input to the process, and spent chemical piped to the recycling unit is not considered byproduct. If any of the recycled solvent can not be used in the process, and is shipped off-site for reuse without any treatment or recovery, it would be considered byproduct as product and reported in section 1.2g of the Form S "Shipped in or as Product." (See section on Byproduct as Product, p.G-6.)

For this example of Integral Recycling, the Form S Section 1 would be filled out as follows:

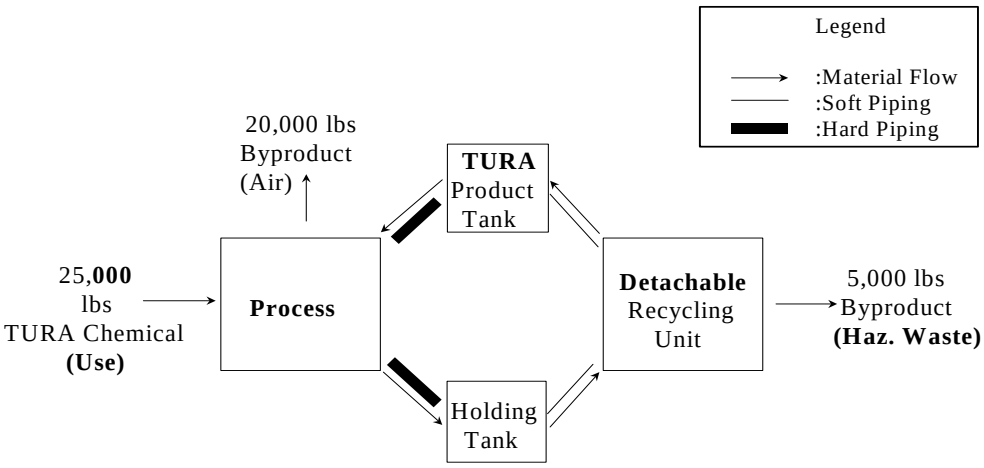
c. Manufactured: 0 d. Processed: 0
e. Otherwise Used: **25000** f. Generated as Byproduct: **25000**
g. Shipped in or as Product: 0*

** If any integrally recycled material is shipped as product (byproduct as product), item g. would reflect that quantity.*

✓Example: 3

A recycling process which utilizes a holding tank, piped to the process, to store spent chemicals which are then recycled via either a permanent or detachable recycling unit, qualifies as integral. The recycling unit must be connected to the holding tank while the unit is in operation. The unit must also be totally enclosed while in operation (as explained in example 1, p.G-2). A written spill prevention plan must be developed to

minimize risk of worker exposure, to prevent spills or leaks when connecting and disconnecting or operating the recycling equipment.



Description of sample process: The quantities in the diagram show the yearly amounts of byproduct produced and material processed. Because the unit is integrally connected, the recycled chemical is not reported as an input to the process and spent chemical piped to the recycling unit, is not considered byproduct. If any of the recycled solvent can not be used in the process, and is shipped off-site for reuse without any treatment or recovery, it would be considered byproduct as product and reported in Section 1 item g. of the Form S "Shipped in or as Product." (See section on Byproduct as Product, p.G-6.)

For this example of Integral Recycling, the Form S, Section 1 would be filled out as follows:

c. Manufactured: 0 d. Processed: 0
e. Otherwise Used: **25000** f. Generated as Byproduct: **25000**
g. Shipped in or as Product: 0*

** If any integrally recycled material is shipped as product (byproduct as product), Section 1 item g. would reflect that quantity.*

BYPRODUCT AS PRODUCT

A byproduct that is product means a byproduct that is used as a raw material without treatment or processing. If a byproduct is treated before it is used as a raw material, then it is not a product. For TURA purposes, byproduct as product should be listed as a product of the production unit. For example, some recycled paints or solvents can be sold to buyers who can use them as they are. While these would not be counted as byproducts, they would need to be counted in the amount of the chemical shipped off-site as product.

BYPRODUCT AS PRODUCT REPORTING UNDER TURA

Chemical amounts being reported as byproduct as product must be listed in the Form S cover sheet in section 4 as a second product for that production unit. Therefore, at least two products will be listed in any production unit that produces byproduct as product.

Are all chemicals only used to treat wastewater? Yes ☐ No ☒ (if yes, then there are no production units associated with this facility).

01
a. Production Unit #

is this production unit IN USE for the reporting year of this submittal?

☐ yes ☐ no

b. Describe the Process:

Degreasing metal parts

c. Describe the Product:

Cleaned metal parts and recycled solvent

Enter up to 4 four-digit SIC Codes that best describe the Product from this Production Unit:

3449			
d. SIC Code	e. SIC Code	f. SIC Code	g. SIC Code

h. Check the appropriate description for the unit of product:

☐ area ☐ dollar ☐ hours ☐ kilowatt ☒ length ☐ N/A ☐ number ☐ volume ☐ weight

01

NON-INTEGRAL RECYCLING (ON-SITE)

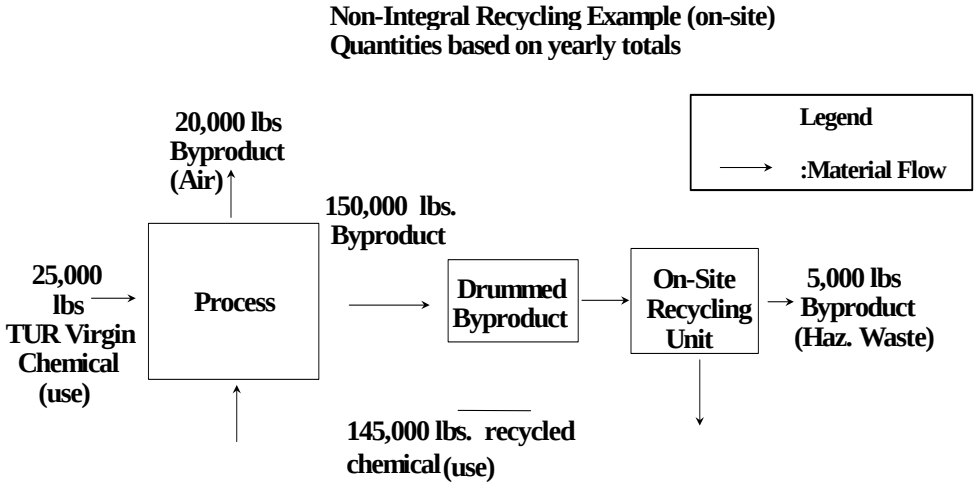
Activities where spent material is removed from the process and transferred into barrels or other containers are not considered integral under this policy. To be considered integral, spent material from the production process must be pumped directly into the recycling unit or into a directly connected holding tank, and then to a directly connected recycling unit.

✓Example: 4

Non-integral, On-Site Recycling Reporting: Many companies have non-integral recycling operations on-site. Their processes include drumming and transporting the material to a different location in the plant at some point during the operation. Although these recycling processes are not considered "integral recycling," TURA and this guidance recognize on-site, non-integral recycling as follows: Companies practicing on-site, non-integral recycling are required to count the recycled chemical as byproduct each time it exits the production unit. Additionally, each time the recycled material is re-introduced as an input to the production unit, it should be

added to chemical use quantities at the production unit level, but not to the facility-wide use levels. Therefore, any type of on-site recycling is not counted towards facility-wide use of the chemical, and will result in a reduction in the facility-wide total usage number.

✓Example: 4 Con't



Description of Sample Process: *Each year, 25,000 lbs of virgin chemical plus 145,000 lbs of recycled chemical are added to the process (inputs). Each year 20,000 lbs of byproduct are released to the air and 150,000 lbs of spent chemical is drummed and brought to the on-site recycling unit. The recycling unit generates 5,000 lbs of hazardous waste. The quantities in the diagram show the yearly amounts of byproduct produced and materials processed. Because this is on-site non-integral recycling, the 145,000 lbs of recycled chemical is not counted towards facility-wide use, but is counted toward chemical use at the production unit level.*

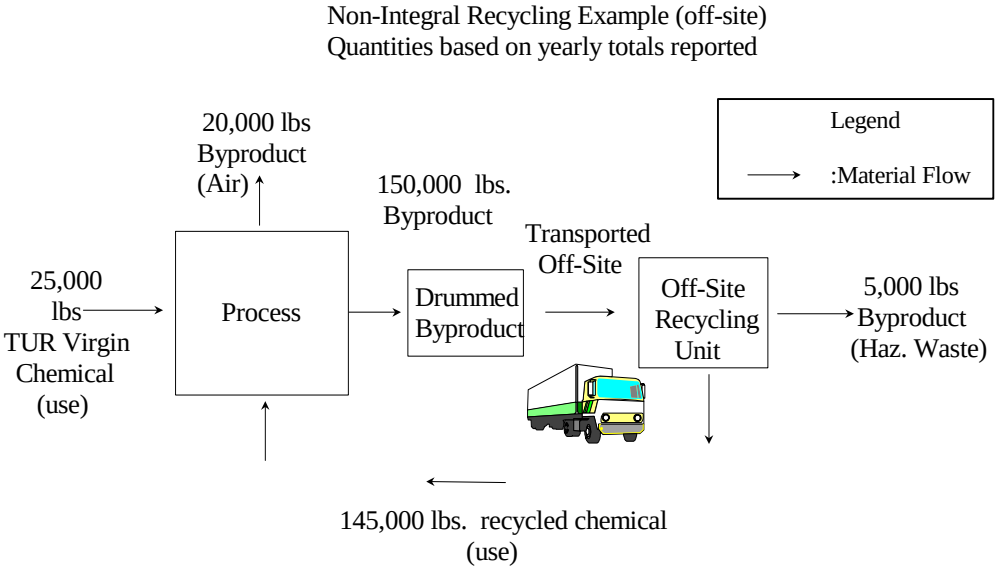
For this example of a company performing Non-Integral On-Site Recycling, the Form S, Section 1, would be filled out as follows:

c. Manufactured: 0 d. Processed: 0
e. Otherwise Used: **25000** f. Generated as Byproduct: **175000**
g. Shipped in or as Product: 0*

This example, when compared to the non-integral off-site recycling example below, demonstrates how facility-wide input numbers are minimized with non-integral, on-site recycling. It should be noted on the Form S, in Section 2, that on-site recycling has affected the materials balance for this chemical.

✓Example: 5

Non-Integral Off-Site Recycling Reporting: Activities where materials are sent off-site for recycling are not considered integral under this guidance. Materials recycled off-site and re-introduced into the process, must be counted as byproduct and use both at the facility-wide and production unit levels. This can add significantly to the amount of chemical brought on-site and reported as facility-wide chemical use.



Description of Example Process: Each year, 25,000 lbs of virgin solvent plus 145,000 lbs of recycled solvent are added to the process (inputs). Each year, 20,000 lbs of byproduct are released to the air and 150,000 lbs spent chemical is drummed and shipped off-site to a company which recycles spent solvent. This off-site recycling unit generates 5,000 lbs of hazardous waste. The quantities in the diagram show the yearly amounts of byproduct produced and material processed. Because of this off-site non-integral recycling, the recycled chemical, as well as the virgin chemical, must be counted as inputs to the process. Additionally, the spent chemical, as well as the byproduct emitted to the air, must be counted as byproduct. The 5,000 lbs of hazardous waste byproduct is neither generated nor reported by this facility.

For this example of a company performing Non-Integral Off-Site Recycling, the Form S, Section 1, would be filled out as follows:

c. Manufactured: 0
d. Processed: 0
e. Otherwise Used: **170000**
f. Generated as Byproduct: **170000**
g. Shipped in or as Product: 0*

✓Example 1: Integral Recycling

- The recycling unit is integral to the process, and therefore exempt from 310 CMR 30.000.
- The recycling unit does not need a recycling permit.
- The byproduct generated from the recycling unit is managed as:

1. Hazardous waste, and as such, counts towards hazardous waste generator status

or

2. Class A regulated recyclable material (notification "permit" required, 310 CMR 30.212)

✓Example 2: Integral Recycling with Portable Recycling Unit

- The recycling unit is integral to the process, and therefore exempt from 310 CMR 30.000.
- The recycling unit does not need a recycling permit.
- The byproduct generated from the recycling unit is managed as:

1. Hazardous waste, and as such, counts towards hazardous waste generator status

or

2. Class A regulated recyclable material (notification "permit" required, 310 CMR 30.212)

✓Example 3: Integral Recycling Incorporating Holding Tank

- The holding tank is regulated as a hazardous waste accumulation container, subject to generator standards for tanks (310 CMR 30.205(19)).
- The facility's generator status calculation includes the amount fed into the holding tank.
- The recycling unit is regulated as a hazardous waste recycling unit, and therefore needs a Class A or Class B (4) recycling permit (310 CMR 30.212 or 30.213(4))

✓ Example 4: On-Site Non-Integral Recycling

- Hazardous waste regulations apply to the drummed byproduct.
- Rate of generation includes the amount of byproduct drummed.
- Hazardous waste recycling permit is required.

✓ Example 5: Off-Site Non-Integral Recycling

- Hazardous waste regulations apply to the drummed byproduct.
- Rate of generation includes the amount of byproduct drummed.
- Hazardous waste recycling permit is required for the generator and the recycling facility.

ASSOCIATED HAZARDOUS WASTE ISSUES

GENERAL COMPLIANCE ISSUES

RECYCLING VS. TREATMENT

In order for an activity to qualify as "integral recycling," the material must be recycled or reused, not treated. From the TURA perspective, this is important because the statutory language refers to "recycling, reuse, or extended use of toxics..." and also because the statutory definition of toxics use reduction specifically excludes anything that is, or that promotes, "end-of-pipe treatment." From the hazardous waste perspective, this is important because treatment activities require licenses under both M.G.L.c. 21C and RCRA.

In order to be consistent with RCRA, the following criteria apply when determining whether an activity constitutes recycling: *

- Is the secondary material as effective as the raw material it replaces?
- Can the secondary material be fed directly into the process or is reclamation required?
- How much of the secondary material is used as compared to the analogous raw material?
- Is the secondary material managed in a manner consistent with the raw material?
- Are the toxic constituents actually necessary to the product or are they just "along for the ride"

*These criteria are taken from the Federal Register (FR), 53 FR at 522, 52 FR at 17013 and 50 FR at 638.

INHERENTLY WASTE-LIKE MATERIAL

The preceding guidance does not apply to those hazardous wastes listed as F020, F021, F022, F023, F026, F028, since those hazardous wastes are inherently waste-like and must be managed as a hazardous waste, pursuant to the definition of hazardous waste contained at 310 CMR 30.000. Furthermore, those inherently waste-like wastestreams cannot be managed as regulated recyclable materials, since there is no exemption provided in 310 CMR 30.200 for those materials. However, there may be circumstances in which the "treatment that is integral..." exemption, cited in 310 CMR 30.000, might apply and in fact, exempt these wastes from hazardous waste regulations.

STATE-ONLY VS. EPA

Concerning other hazardous waste regulatory compliance issues, a TURA filer must keep in mind that since some hazardous waste activities are regulated on a state-only basis, for these wastes, MassDEP can exert a measure of discretion in policy-making. However, other activities are regulated by both MassDEP and EPA, and in these circumstances, MassDEP's discretion is generally more limited to federal rulings. For example:

- Characteristic sludges and byproducts being reclaimed are regulated by MassDEP only, and can be managed as hazardous waste, or if being reclaimed, they can be managed as a regulated recyclable material.

- Listed sludges and byproduct being reclaimed are regulated by both EPA and MassDEP.

- Spent materials being reclaimed on-site are regulated by both EPA and MassDEP.

OTHER STATE AND FEDERAL LAWS OR REGULATIONS

This guidance does not relieve those responsible for these "recycling activities" from regulatory responsibility contained in any other applicable state or federal laws or regulations. It is incumbent upon the responsible parties to conduct the recycling activities at all times in a manner that is protective of public health, safety, and the environment. To that end, MassDEP reserves its rights pursuant M.G.L. c. 21C, and M.G.L. c. 21I, to review and evaluate any such activity, on a case-by-case basis, and to require persons or entities managing these activities to comply fully with these laws.

Appendix H

GUIDANCE FOR USING THE TURA PRODUCTION PROCESS CODES

This appendix explains how to use the new standardized codes to describe the production processes included in your production unit(s).

Under TURA, the "production unit" [defined as the process(es) used to produce a product] is the basic unit for reporting and planning. In its regulations, MassDEP chose to give firms flexibility over how they designate their production units. The rationale was that firms are better suited to determine meaningful product and process combinations than are the regulators.

In TURA reporting, firms list their production units (as they chose to define them) in the Form S Cover Sheet -- identifying the products using one or more four digit SIC codes and describing the processes in their own words. MassDEP amended the TURA regulations (310 CMR 50.30) to incorporate reporting on production processes using generic codes.

This Appendix describes how and why the codes were developed and then explains how to use them to report information on the Form S Cover Sheet. (See page H-9 for the annotated list of the codes.)

Do the codes require that a firm make changes in the way it defined its production unit?

No. The coding system is intended to maintain the traditional flexibility firms have been given in grouping products and processes into production units. No change in how firms define their production units is required. The codes are generic enough that most firms should only need a few codes to describe their processes.

Why were these codes developed?

The standardized process codes were developed, in large part, because of differences in the way similar processes were described by different companies. MassDEP wants to retain the flexibility given to firms in designating production units. We also need to identify, however, the similarities and differences in processes as part of potentially developing user segment regulations.

The coding system is intended to be used to group the 800+ processes reported each year into broad categories based on similarities and differences in such things as: 1) processes, 2) chemical use, 3) byproduct production, and 4) opportunities for TUR. Alpha-numeric codes have been assigned to each generic category.

✓ Example 1: Off-Site Non-Integral Recycling

Each year, a number of firms report deionization of water as a production unit, although the way they describe this process varies. Some refer to it as "D/I Unit," others report only the "regeneration of resins for deionization," etc.

These firms represent a variety of industries, including paper making, pharmaceuticals, electroplating, and co-generation of steam. With the coding system, these firms would uniformly report HH-01 for deionizing water. Once this code is entered into the computer system, MassDEP can run a report, for example, to determine what TUR techniques have been adopted. Any promising developments in one industry can be researched for potential applicability in other industries.

MassDEP has, in fact, seen examples where technology transfers look promising. One TURA filer, primarily a chemical manufacturer, uses electroplated copper powders or flakes as a component in its products. That firm has developed an electroplating process that eliminates the need to use cyanide compounds. Although the process is patented, its development in one industry suggests the potential for technology transfer to traditional electroplating firms.

HOW TO USE THE PRODUCTION PROCESS CODES

Shown below is an excerpt from the **Form S Cover Sheet** showing the top half of Section 4, and calls for identifying the production unit by number, describing the processes involved, describing the product etc.

Section 4: Facility-Wide Listing of Production Units

A PRODUCTION UNIT is best thought of as the combination of the process (or activities) used to produce a product or service and the product or service. In this section, please identify the PRODUCTION UNITS at the facility, then use the production unit number to report on chemical use in the Form S.

If there has been a substantial change in a PRODUCTION UNIT from the previous reporting year, the PRODUCTION UNIT must be given a new, unique number.

Are all chemicals only used to treat wastewater? Yes ☐ No ☐ (if yes, then there are no production units associated with this facility).

a. Production Unit #

is this production unit IN USE for the reporting year of this submittal?

b. Describe the Process:

c. Describe the Product:

Enter up to 4 four-digit SIC Codes that best describe the Product from this Production Unit:

d. SIC Code e. SIC Code f. SIC Code g. SIC Code

h. Check the appropriate description for the unit of product:

☐ area ☐ dollar ☐ hours ☐ kilowatt ☐ length ☐ N/A ☐ number ☐ volume ☐ weight

Where the form calls for information concerning the process, a firm should describe any process step that involves a TURA-reported chemical as an input, output or throughput.

A firm need NOT describe a process step that does not involve a TURA chemical. For example, a juice manufacturer would not have to describe mixing as a process step unless a TURA chemical being reported this year was involved. Another manufacturer that mixed food grade acetic acid to produce salad dressing would report the mixing step.

MassDEP does not expect extremely detailed descriptions of process steps and in the past most firms have described their processes in sufficient detail. More specific descriptions, however, will help MassDEP identify similarities and differences in the production processes of firms.

✓ Example 2: Off-Site Non-Integral Recycling

Instead of describing process as "household appliance manufacturing," it would be more helpful if the firm reported "spray coating and assembly of household appliances."

After describing the process, a firm describes the product and enters the four-digit SIC code(s) that best describes that product. Then the unit of product is described in narrative fashion. (See page 23 of the reporting instructions for more detailed information on completing the first part of Section 4.)

Using the standardized process codes

Shown below is that part of Section 4 that calls for firms to enter the appropriate standardized process codes.

Production Process Step Information For This Production Unit

i. Enter the production process codes to identify the process steps that involve TURA-reportable chemicals as an input, output or throughput. (See the reporting guidance document for the list of production process codes and instructions on when a given code needs to be listed.)

1. _____ Process Code	2. _____ Process Code	3. _____ Process Code	4. _____ Process Code
5. _____ Process Code	6. _____ Process Code	7. _____ Process Code	8. _____ Process Code
9. _____ Process Code	10. _____ Process Code	11. _____ Process Code	12. _____ Process Code
13. _____ Process Code	14. _____ Process Code	15. _____ Process Code	16. _____ Process Code
17. _____ Process Code	18. _____ Process Code	19. _____ Process Code	20. _____ Process Code
21. _____ Process Code	22. _____ Process Code	23. _____ Process Code	24. _____ Process Code

To complete this part of the cover sheet, firms need to determine which production process code(s) best describe their activities. Note that the production process codes (which begin on page H-9) have been divided into three groups.

Note: There are some firms that may have to review the codes in all the groups. This might occur, for example, with a textile manufacturer that not only dyes fabric but also formulates the dye using a chemical reaction.

Note: The examples and cross - references provided by MassDEP are based upon the agency's best understanding of production processes as described in TURA reports submitted in previous years.

With the first two groups, a distinction has been drawn between production processes generally used to provide services or make (or process) objects (Group 1) and those processes typically associated with the manufacture of chemicals (Group 2).

Group 1 contains processes that typically are used by firms that primarily make or process objects and goods (or provide services).

Group 2 is designed primarily for use by firms that manufacture or process chemicals. (Mainly firms in SIC code 28, 29, 30, some firms in 33 who recover metals, and chemical distributors.)

Group 3 lists miscellaneous processes that might be used by any firm, regardless of whether services are provided, goods are made, or chemicals produced.

DETERMINING WHICH PROCESS GROUP LIST TO USE

If your firm primarily makes or processes objects (or provides services) look first at the codes in Groups 1 and 3. If there are codes on these lists that adequately describe your processes, you need not evaluate or report any of the chemical process codes in Group 2.[1] Similarly, a firm that primarily manufactures or processes chemicals should first look at Groups 2 and 3 for applicable codes.

If your firm makes and processes objects (or provides services) and there is no code in Group 1 or Group 3 that adequately describes your process, you should then check the Group 2 codes. There may be a generic chemical process code that you can use. If you have questions, you can call MassDEP at (617) 292-5711.

For many firms, using the process code lists should be straightforward. MassDEP does recognize, however, that questions and issues of interpretation of the codes may arise. To assist TURA reporters, MassDEP has included examples or other comments in the attached list of codes.

The examples and cross-references are intended ONLY as a guide; each filer is encouraged to use its own best judgment concerning which codes to use. There are, however, some general principles for using the production process codes.

[1] Many process steps in **Group 1** are themselves chemical reactions. For example, electroplating is an oxidation/reduction reaction. An electroplating firm, however, would enter one of the codes for electroplating (AA-12 or AA-13, for example). The firm would NOT enter the **Group 2** code (EE-07) for oxidation/reduction reactions.

1. **Each generic process code refers to the specific steps (or unit operations) normally associated with that process.**

✓Example: 3

A textile manufacturer reports "acid aging," not as a bleaching process but as a step by which dyes are chemically activated. That manufacturer would use the code AA-22 Pigmentation and Dyeing for "acid aging" and all other steps normally associated with dyeing.

---

2. **If a number of process steps can be categorized by one code, that code should be entered ONLY once for a given production unit.**

✓Example: 4

A tool manufacturer cuts, drills, and turns metal to produce hand tools. Generally all those processes can be classed as BB-05 Removal by Mechanical Means (Gross Mass Removal). The code BB-05 would be entered once for all those operations if they all are included in a given production unit. (If the firm had a second production unit with the same three processes, BB-05 would be reported for that production unit as well.)

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3. **Use all the codes that apply.**

✓Example: 5

Electroplating as a generic process includes a product cleaning step. The appropriate code for electroplating should be reported, as well as the appropriate product cleaning code.

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4. **Using the "not otherwise specified" codes.**

The production processes are generally placed in subgroups, such as the "Product Molding and Forming" subgroup which includes CC-01 (Casting and Molding), CC-02 (Extrusion and Drawing) CC-03 (Forging), etc.

In some groups, the last code contains the abbreviation N.O.S. for "not otherwise specified." This code should be used for processes that cannot be categorized into one of the codes above it in the subgroup.

What do I do if a process is not adequately described by a listed code?

After looking at Group 1 and 3 codes, a firm that makes or processes objects should next look at the Group 2 chemical reaction codes. If one of those codes apply, use it. If no code truly seems to apply, a firm should use its best judgment to determine which coded process is "most like" the activity being reported.

✓Example: 6

In the plastics industry there is a relatively new process for forming products known as "pultrusion." With this process, heated plastic is pulled through a die that gives it a specific shape. Assume no existing code is applicable.

Looking over the **Group 1** list, however, the annotations indicate that CC-02: Extrusion and Drawing are processes that give a specific shape to a product by forcing it through a die. "Pultrusion" could be considered "most like" extrusion because a die is used to give shape to a product, even though the plastic is pulled, not pushed.

✓Example: 7

A food manufacturer uses a TURA-reportable chemical to "fumigate" its facility. Assume that there is no code that covers this process. There are, however, two processes that are similar: FF-04: Equipment Cleaning (Solvent-Based) (includes sanitizing) and HH-02 Process Water Treatment – Biocides and Disinfection (which includes chlorination).

This firm would have to use its best judgment as to which code "fumigation" is most like. If the fumigant used is a solvent, the equipment cleaning code could be viewed as the most applicable. As this example illustrates, there is not necessarily any one "right" answer for which process code is most like "fumigation."

Reporting on the chemicals associated with a production unit

Each production unit may be associated with one or more chemicals. In the last part of section 4, firms list the particular chemical(s) that are associated with the given production unit. There is a space for the chemical name and the chemical abstract service (CAS) number. (If there is no CAS number, leave that line blank.) The form then asks whether the chemical listed is associated with all the process steps coded above. If so, check "YES" and no process codes need to be entered for the chemical. If

the chemical is associated with some but not all of the processes, the appropriate process codes should be listed.

To illustrate Section 4 reporting, consider a firm that makes jewelry which reports two chemicals: trichloroethane (used to clean jewelry) and ammonia (used in etching).

The cleaning step would be BB-01: Product Cleaning - Solvent-Based, and the etching process would be BB-04: Removal by Chemical Means. This firm would report as shown below.

✓Example 8: Production Units

01
a. Production Unit #

is this production unit IN USE for the reporting year of this submittal?

b. Describe the Process:

Cleaning and etching and jewelry

c. Describe the Product:

jewelry

Enter up to 4 four-digit SIC Codes that best describe the Product from this Production Unit:

3961			
d. SIC Code	e. SIC Code	f. SIC Code	g. SIC Code

h. Check the appropriate description for the unit of product:

☐ area ☐ dollar ☐ hours ☐ kilowatt ☐ length ☐ N/A ☒ number ☐ volume ☐ weight

✓Example 8: Production Units (Con't)

Production Process Step Information For This Production Unit

i. Enter the production process codes to identify the process steps that involve TURA-reportable chemicals as an input, output or throughput. (See the reporting guidance document for the list of production process codes and instructions on when a given code needs to be listed.)

1. BB01 Process Code	2. BB04 Process Code	3. Process Code	4. Process Code
5. Process Code	6. Process Code	7. Process Code	8. Process Code
9. Process Code	10. Process Code	11. Process Code	12. Process Code
13. Process Code	14. Process Code	15. Process Code	16. Process Code
17. Process Code	18. Process Code	19. Process Code	20. Process Code

21. _____ Process Code 22. _____ Process Code 23. _____ Process Code 24. _____ Process Code

List the TURA-reportable chemicals associated with this production unit. If a chemical is associated with ALL the process steps entered in i. above, check ALL. If a chemical is associated with some but not all of the process steps, check the numbers that correspond to the process codes entered in i. above (i.e. box 1 below corresponds to the process code entered in i.1).

j. Production unit number: 01 (Prod. Unit #)

k. TURA Chemica: 71556 (CAS #) TRICHLOROETHANE (Chemical Name)

Check "All" or the numbers that correspond to the process codes entered in i. **All.** ☐

1. ☒ 2. ☐ 3. ☐ 4. ☐ 5. ☐ 6. ☐ 7. ☐ 8. ☐ 9. ☐ 10. ☐ 11. ☐ 12. ☐

13. ☐ 14. ☐ 15. ☐ 16. ☐ 17. ☐ 18. ☐ 19. ☐ 20. ☐ 21. ☐ 22. ☐ 23. ☐ 24. ☐

l. TURA Chemica: 7664417 (CAS #) AMMONIA (Chemical Name)

Check "All" or the numbers that correspond to the process codes entered in i. **All.** ☐

1. ☐ 2. ☒ 3. ☐ 4. ☐ 5. ☐ 6. ☐ 7. ☐ 8. ☐ 9. ☐ 10. ☐ 11. ☐ 12. ☐

13. ☐ 14. ☐ 15. ☐ 16. ☐ 17. ☐ 18. ☐ 19. ☐ 20. ☐ 21. ☐ 22. ☐ 23. ☐ 24. ☐

TURA PRODUCTION PROCESS CODES

Group 1: Processes Typically Used by Firms that Make and Process Objects or Provide Services

General Guide to Group 1 Process Codes: Codes with the prefix "AA" generally refer to processes that add coatings or other matter to a product. The "BB" codes refer to processes that remove matter from a product. The "CC" codes represent processes by which products are given form, shape, physical dimension or other physical properties.

PROCESS and PROCESS CODE	COMMENTS and EXAMPLES
Coating & Painting Processes	Note: firms that use extrusion to coat objects should use the Extruding/Drawing (CC-02)
AA-01: Dip, Flow & Curtain Coating	Example: processes where excess coating material is allowed to flow or drain off
AA-02: Spray Coating	Example: applying coating as a fine mist or spray

	Note, however, electrostatic spray coating is included under AA-04 rather than this code
AA-03: Knife/Spread/Roll Coating	Example: using a roller, doctor knife or brush to apply coating
AA-04: Electrostatic Coating Methods	Examples: electrostatic spray coating, electrostatic powder coating, electrocoating
Printing Processes	
AA-05: Letterpress & Flexographic	Example: ink applied to a raised surface of printing plate
AA-06: Lithographic	Example: ink adheres to hydrophobic area/fountain solution adheres to hydrophilic area Use this code to describe the lithographic processes used in semiconductor and printed circuit board manufacturing
AA-07: Gravure	Example: ink remains in recessed areas of the plate Includes gravure coating as well as printing
AA-08: Screen Printing	Example: ink forced through open or porous areas of screen or plate
AA-09: Pad Printing	Example: use of a silicone pad to transfer ink from etched/engraved plate to work piece
AA-10: Printing Using Carrier Films or Foils	Examples: hot stamping, in-mold decorating of plastics using films or foils
AA-11: Jet Printing	Example: use of jet(s) to apply text or a pattern
Plating Processes	
AA-12: Electroplating (Barrel) AA-13: Electroplating (Rack)	
AA-14: Electroless (Barrel) AA-15: Electroless (Rack)	
AA-16: Mechanical Plating	Example: coating a substrate by tumbling or other mechanical means, e.g., using metal powders
AA-17: Hot Dip Coating (of metal)	Examples: galvanizing, hot tin dipping

Processes that penetrate surface layer	
AA-18: Anodizing, Conversion Coating and Case Hardening (through diffusion)	Examples: anodizing, black oxide conversion, bright dipping, chromating, passivating, phosphating Includes case hardening through diffusion of substances in the surface layer of metal (e.g., nitriding, nitrocarburizing) For case hardening through the application of energy/heat, see CC-04
AA-19: Deposition	Examples: vacuum metallizing, sputtering, metal (flame) spraying
Processes that add material throughout the mass of a product	
AA-20: Pigmentation/Dyeing	
AA-21: Infiltration/Saturation	Example: kraft paper saturation
AA-22: Impregnation/Implantation	Examples: (from semiconductor industry) - doping (through diffusion), ion implantation, vacuum impregnation
Processes that remove material from product	
Product or Parts Cleaning	Removing dirt, grease and other foreign matter from product For drying that occurs as part of cleaning use BB-09
BB-01: Solvent-Based	
BB-02: Aqueous	Includes rinsing
BB-03: Mechanical	Examples: sand blasting, cleaning with saw dust
Removal of Mass from Substrate (excluding Cleaning)	
BB-04: Removal by Chemical Means	Includes bleaching (in textiles), chemical stripping, electropolishing, etching, pickling (of metals)
BB-05: Removal by Mechanical Means (Gross Mass Removal)	Includes processes that remove pieces or chips from product; can include cutting, drilling, lathing, turning
BB-06: Removal by Mechanical Means (Fine Mass Removal/Size Reduction)	Includes removal methods that produce fine particles/dust;

	can include abrasive blasting, grinding, milling, polishing (processes that smooth the surface without removing material should be reported as CC-06)
BB-07: Removal by Chemical and Mechanical Means	Example: (in paper making) pulping where mechanical and chemical processes are used
BB-08: Removal by Application of Heat or Energy	Example: laser cutting
BB-09: Drying NOS	Drying not otherwise specified; includes chemical drying
Product Molding/Forming	
CC-01: Casting/Molding	Includes all forms of casting, injection molding, blow molding and similar processes
CC-02: Extrusion/Drawing	Includes processes by which a product is given shape by pushing material through a die or similar device Firms that coat products by extrusion should use this code
CC-03: Forging	
CC-04: Heat Treating NOS	Examples: controlled heating of metal to increase or decrease hardness, improve machinability, relieve stresses etc. (annealing, austempering, tempering and case hardening)
CC-05: Quenching	Example: rapid cooling after heat treating through contact with liquids, gases or solids
CC-06: Forming by Mechanical Means NOS	Forming by Mechanical Means not otherwise specified Examples: bending, cold heading, embossing, rolling
Bonding/Joining	
CC-07: Application of Adhesives	
CC-08: Soldering/Brazing	
CC-09: Welding	
CC-10: Sintering/Powder Metallurgy	
CC-11: Joining through Application of Heat/Energy NOS	Joining through Application of Heat/Energy not otherwise specified

CC-12: Joining through Chemical Means NOS	Joining through Chemical Means not otherwise specifed
CC-13: Joining through Mechanical Means NOS	Joining through Mechanical Means not otherwise specified Examples: cladding

TURA PRODUCTION PROCESS CODES

Group 2: Production Processes Typically Used by Firms that Manufacture and Process Chemicals

PROCESS and PROCESS CODE	COMMENTS and EXAMPLES
SEPARATION/REFINING	
DD-01: Centrifuge/Filtration	
DD-02: Distillation	
DD-03: Drying	
DD-04: Extraction	
DD-05: Precipitation	
DD-06: Refining/Purification	
DD-07: Smelting	
CHEMICAL REACTIONS	
EE-01: Acetalization	
EE-02: Condensation	
EE-03: Curing, Vulcanizing, Cross Linking	
EE-04: Dehydrogenation	
EE-05: Esterification	

EE-06: Hydrogenation	
EE-07: Oxidation/Reduction	
EE-08: pH Adjust	
EE-09: Polymerization	
EE-10: Substitution Reactions	Includes halogenization and chlorination
EE-11: Chemical Reactions NOS	Chemical Reactions not otherwise specified

TURA PRODUCTION PROCESS CODES

Group 3: Miscellaneous Processes that could be used by any firm

PROCESS and PROCESS CODE	COMMENTS and EXAMPLES
Production Equipment Cleaning	Examples: cleaning of vessels, process lines, printing plates, such devices as spray guns. Also includes descaling of boilers NOTE: Equipment cleaning includes SANITIZING
FF-01: Solvent-Based	
FF-02: Aqueous	Example: use of caustic solutions to clean production equipment
FF-03: Mechanical	Example: use of wiper blades, squeegees
Materials Storage/Handling	
GG-01: Blending, Mixing, Compounding	
GG-02: Particle Size Reduction	Example: grinding mills
GG-03: Packaging/Filling	Examples: bottling liquid products, repackaging
GG-04: Materials Storage/Handling NOS	Materials Storage Handling not otherwise specified Use for storage and handling processes that generate losses such as spills or evaporative losses

Treatment of Process Water	
HH-01: Deionization, Demineralization	Examples: deionization, water softening, including associated process like regeneration of deionization resins
HH-02: Use of Biocides/Disinfection	Examples: water chlorination, use of algaecides in cooling towers
HH-03: pH Control of Process Water NOS	pH Control of Process Water (including water in boilers), not otherwise specified
Refrigeration/Temperature Control	
II-01: Refrigeration	
II-02: Heat Exchange Unit	
II-03: Contact Cooling NOS	Contact Cooling not otherwise specified Do not use for quenching. Quenching is CC-05
II-04: Noncontact Cooling NOS	Noncontact Cooling not otherwise specified
Power Generation	
JJ-01: Production of Electricity, Steam, Facility Heat	Applies to processes producing electricity, steam or heat through combustion, includes co-generation Note: use an FF code for equipment cleaning associated with power production and a HH code for treatment of cooling or boiler water

TURA PRODUCTION PROCESS CODES: Alphabetized List of Group 1 and 3 Processes (cross-referenced to recommended codes)

MassDEP has prepared the following alphabetical listing of some of the more commonly reported production processes with cross-references to the recommended codes in pp. H-15 thru H-23. This appendix explains how to use generic codes to report on production processes in the Form S Cover Sheet. The alphabetical list covers selected processes from Groups 1 and 3 of the codes in pp. H-15 thru H-24.[2]

[2] In pp. H-15 thru H-24, the codes are divided into three groups: Group 1 lists processes typically used by firms that primarily make or process objects (or provide services). Group 2 lists processes typically used by firms that are primarily in the chemical manufacturing SIC codes. Group 3 lists miscellaneous processes that might be used by any firm regardless of whether objects or chemicals are made/processed (or services provided).

(Firms that are primarily in the chemical manufacturing SIC codes should also refer to the Group 2 codes on page H-12. The processes associated with chemical manufacturing are not included in this alphabetical list.)

Pages H-15 thru H-24 should also be consulted to confirm the applicability of a code. While the appendix and this list are intended to provide guidance, each filer is encouraged to use his or her best judgment concerning which code(s) adequately describes its processes.

IMPORTANT NOTE ON THE "MOST LIKE" AND "NOT OTHERWISE SPECIFIED" CODING:

On pages H-15 thru H-24, the codes are divided into subgroups, such as CC-01 through CC-06 for the product molding and forming codes. Some of the subgroups contain one or more codes containing the abbreviation "NOS" for "not otherwise specified."

Each NOS code is a default code for its group. For example, CC-06 (Forming by Mechanical Means NOS) should be used for any mechanical product forming process other than those specifically-named in its group (e.g., casting, molding, extrusion, etc.) The use of the "most like" coding method (described on p. H-6) should only be used as a last resort, i.e., if there is no applicable code, NOS or otherwise.

ALPHABETICAL LISTING OF PRODUCTION PROCESSES

Process Step	Cross-Reference / Comment
abrasive blasting	*see codes listed below under "removal of mass from substrate"*
acid aging	see AA-20 (Pigmentation/Dyeing), for acid aging as a step in dyeing
annealing	see CC-04 (Heat Treating NOS)
anodizing	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
application of adhesives	see CC-07 (Application of Adhesives - Bonding/Joining)
aqueous-based cleaning	see FF-02 (Aqueous Cleaning of Production Equipment) of production equipment
aqueous-based cleaning	see BB-02 (Aqueous Cleaning of Product or Parts) of work product
austempering	see CC-04 (Heat Treating NOS)
bending	see CC-06 (Forming by Mechanical Means NOS)

black oxide	see AA-18 (Anodizing, Conversion Coating & Case Hardening conversion coating [through diffusion])
blanking	*see codes listed below under "removal of mass from substrate"*
bleaching	see BB-04 (Removal by Chemical Means)
blending	see GG-01 (Blending, Mixing, Compounding)
blow molding	see CC-01 (Casting/Molding)
bonding/joining	see as appropriate: CC-07 (Application of Adhesives) CC-08 (Soldering/Brazing) CC-09 (Welding) CC-10 (Sintering/Powder Metallurgy) CC-11 (Joining through Application of Heat/Energy NOS) CC-12 (Joining through Chemical Means NOS) CC-13 (Joining through Mechanical Means NOS)
boring	*see codes listed below under "removal of mass from substrate"*
bottling liquid products	see GG-03 (Packaging/Filling)
brazing	see CC-08 (Soldering/Brazing)
bright dipping	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion]) if bright dipping is intended to alter the chemical structure of the workpiece's surface see BB-04 (Removal by Chemical Means) if bright dipping is intended to remove mass from the workpiece
broaching	*see codes listed below under "removal of mass from substrate"*
brush-on coating	see AA-03 (Knife/Spread/Roll Coating)
buffing	see as appropriate: CC-06 (Forming by Mechanical Means NOS), if the process is not intended to remove material from the work piece

	codes listed below under "removal of mass from substrate," if the process is intended to remove material from the work piece
burnishing	see as appropriate: CC-06 (Forming by Mechanical Means NOS), if the process is not intended to remove material from the work piece *codes listed below under "removal of mass from substrate,"* if the process is intended to remove material from the work piece
calendering	see CC-06 (Forming by Mechanical Means NOS)
case hardening	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion]), includes processes such as nitriding
case hardening by heat treating	see CC-04 (Heat Treating NOS)
casting	see CC-01 (Casting/Molding)
chemical drying	see BB-09 (Drying NOS), if chemical drying refers, for example, to the use solvents for drying a work product see DD-03 (Drying) for chemical manufacturers that dry chemicals
chemical stripping	see BB-04 (Removal by Chemical
chromating	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
cladding	see CC-13 (Joining through Mechanical Means (NOS) leaning of production equipment see as appropriate: FF-01 (Solvent-Based Cleaning of Production Equipment) FF-02 (Aqueous Cleaning of Production Equipment) FF-03 (Mechanical Cleaning of Production Equipment) cleaning of work product see as appropriate: BB-01 (Solvent-Based Cleaning of Product or Parts) BB-02 (Aqueous Cleaning of Product or Parts) BB-03 (Mechanical Cleaning of Product or Parts)

co-extrusion	see CC-02 (Extrusion/Drawing)
co-generation	see JJ-01 (Production of Electricity, Steam, Facility Heat)
cold heading	see CC-06 (Forming by Mechanical Means NOS)
compounding	see GG-01 (Blending, Mixing, Compounding
contact cooling	see II-03 (Contact Cooling NOS) or quenching, however, use CC-05 (Quenching)
conversion coating	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
conveyorized degreasing	*see codes listed above under "cleaning of work product"*
crystal growth	see AA-19 (Deposition)
curtain coating	see AA-01 (Dip, Flow & Curtain Coating)
cutting	*see codes listed below under "removal of mass from substrate"*
deburring	*see codes listed below under "removal of mass from substrate"*
degreasing	*see codes listed above under "cleaning of work product"*
deionization	see HH-01 (Deionization, Demineralization), includes the regeneration of deionization resins (of process water)
demineralization	see HH-01 (Deionization, Demineralization)
deposition	see AA-19 (Deposition) use this code for processes that in deposit thin films (usually of metal) and for crystal growth (includes metal [flame] spraying, sputtering, vacuum metallizing)
descaling of boilers	*see codes listed above under "cleaning of production equipment"*
descaling of work product	*see codes listed below under "removal of mass from substrate"*
desmutting	*see codes listed below under "removal of mass from substrate"*
dip coating	see AA-01 (Dip, Flow & Curtain Coating)

disinfection	see HH-02 (Treatment of Process Water: Use of of process water Biocides/Disinfection)
doping (through diffusion)	see AA-22 (Impregnation/Implantation)
drawing	see CC-02 (Extrusion/Drawing)
drilling	*see codes listed below under "removal of mass from substrate"*
dry cleaning (of clothes)	*see codes listed above under "cleaning of work product"*
drying (of work product)	see BB-09 (Drying NOS)
dyeing	see AA-20 (Pigmentation/Dyeing)
electric power generation	see JJ-01 (Production of Electricity, Steam, Facility Heat)
electrocoating	see AA-04 (Electrostatic Coating Methods)
electroless plating (barrel)	see AA-14 (Electroless Plating [Barrel])
electroless plating (rack)	see AA-15 (Electroless Plating [Rack])
electroplating (barrel)	see AA-12 (Electroplating [Barrel])
electroplating (rack)	see AA-13 (Electroplating [Rack])
electropolishing	see BB-04 (Removal by Chemical Means)
electrostatic coating methods	see AA-04 (Electrostatic Coating Methods)
electrostatic powder coating	see AA-04 (Electrostatic Coating Methods)
electrostatic spray coating	see AA-04 (Electrostatic Coating Methods
embossing	see CC-06 (Forming by Mechanical Means NOS)
equipment cleaning	*see codes listed above under "cleaning of production equipment"*
etching	see BB-04 (Removal by Chemical Means)
extrusion	see CC-02 (Extrusion/Drawing)
filling	see GG-03 (Packaging/Filling)

flame and arc cutting	see BB-08 (Removal by Application of Heat or Energy)
flexographic printing	see AA-05 (Letterpress & Flexographic Printing)
flow coating	see AA-01 (Dip, Flow & Curtain Coating)
foam molding	see CC-01 (Casting/Molding)
forging	see CC-03 (Forging)
forming by mechanical means NOS	see CC-06 (Forming by Mechanical Means NOS) mechanical forming processe other than casting/molding (CC-01), extrusion/drawing (CC-02) or forging (CC-03)
galvanizing	see as appropriate: AA-17 (Hot Dip Coating of Metal) AA-12 (Electroplating, Barrel) & AA-13 (Electroplating, Rack), if galvanizing is by electroplating
gravure printing	see AA-07 (Gravure)
gravure coating	see AA-07 (Gravure)
grinding	see as appropriate: *codes listed below under "removal of mass from substrate"* GG-02 (Particle Size Reduction) for grinding of chemicals, as in grinding of paint pigments
heat exchange unit	see II-02 (Heat Exchange Unit)
heat treating	see CC-04 (Heat Treating NOS)
hobbing	*see codes listed below under "removal of mass from substrate*
hot dip coating (of metal)	see AA-17 (Hot Dip Coating of Metal)
hot stamping	see AA-10 (Printing Using Carrier Films or Foils) (printing)
hot tin dipping	see AA-17 (Hot Dip Coating of Metal)
implantation	see AA-22 (Impregnation/Implantation)

impregnation	see AA-22 (Impregnation/Implantation)
in-mold decorating of plastics using films or foils	see AA-10 (Printing Using Carrier Films or Foils)
infiltration	see AA-21 (Infiltration/Saturation)
injection molding	see CC-01 (Casting/Molding)
ion implantation	see AA-22 (Impregnation/Implantation)
jet printing	see AA-11 (Jet Printing)
knife coating	see AA-03 (Knife/Spread/Roll Coating)
knife over roll coating	see AA-03 (Knife/Spread/Roll Coating)
kraft paper saturation	see AA-21 (Infiltration/Saturation)
laser cutting	see BB-08 (Removal by Application of Heat or Energy)
lathing	*see codes listed below under "removal of mass from substrate"*
letterpress printing	see AA-05 (Letterpress & Flexographic Printing)
lithographic printing	see AA-06 (Lithographic)
machining	*see codes listed below under "removal of mass from substrate"*
materials storage/handling	see as appropriate: GG-01 (Blending, Mixing, Compounding) GG-02 (Particle Size Reduction) GG-03 (Packaging/Filling) GG-04 (Materials Storage Handling NOS)
mechanical plating	see AA-16 (Mechanical Plating)
metal (flame) spraying	see AA-19 (Deposition)
milling	see as appropriate: *codes listed below under "removal of mass from substrate"* GG-02 (Particle Size Reduction) as in the use of grinding mills

mixing	see GG-01 (Blending, Mixing, Compounding)
molding	see CC-01 (Casting/Molding)
neutralization	if neutralization is a step in a coded process, use that code for that process, for example, if neutralization is a step in dyeing, the appropriate code would be AA-20 (Pigmentation/Dyeing)
use EE-08	if neutralization is used in the manufacture of a chemical, (pH Adjust)
nitriding	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
nitrocarburizing	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
noncontact cooling	see II-04 (Noncontact Cooling NOS) (where cooling fluid is kept separate from the production process)
packaging	see GG-03 (Packaging/Filling)
pad printing	see AA-09 (Pad Printing)
particle size reduction	see GG-02 (Particle Size Reduction), for processes such as the grinding of paint pigments
passivating	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
pH control	see HH-03 (pH Control of Process Water [including water in of process water boilers] NOS)
photolithography	see AA-06 (Lithographic)
phosphatizing	see AA-18 (Anodizing, Conversion Coating & Case Hardening [through diffusion])
pickling (of metals)	see BB-04 (Removal by Chemical Means)
pigmentation	see AA-20 (Pigmentation/Dyeing)
polishing	*codes listed below under "removal of mass from substrate,"* if material is removed from work piece
polishing (continued)	CC-06 (Forming by Mechanical Means NOS) if material is not removed from work piece

powder metallurgy	see CC-10 (Sintering/Powder Metallurgy)
pressure treating (wood)	see AA-22 (Impregnation/Implantation)
printing using	see AA-10 (Printing Using Carrier or Filmscarrier films or Foils)

NOTE: some mechanical "removal" processes (e.g., polishing) can be used either to remove material or to smooth the surface of a product without removing material. The code for such mechanical surface "smoothing" is CC-06 (Forming by Mechanical Means NOS).

pulping (in paper making)	see as appropriate: BB-05 (Removal by Mechanical Means - Gross Mass Removal) BB-06 (Removal by Mechanical Means - Fine Mass Removal) BB-07 (Removal by Chemical & Mechanical Means)
punching	*see codes listed below under "removal of mass from substrate"*
quenching	see CC-05 (Quenching)
refrigeration	see II-01 (Refrigeration)
regeneration of deionization resins	see HH-01 (Deionization, Demineralization)
removal of mass from substrate	refers to processes which can be used to a work product, generally, excluding the removal of dirt or grease cleaning as in removal The six removal codes are: BB-04 (Removal by Chemical Means) BB-05 (Removal by Mechanical Means -- Gross Mass Removal), to be used if process removes pieces or chips BB-06 (Removal by Mechanical Means -- Fine Mass Removal/ Size Reduction), to be used if process produces fine particles or dust

	BB-07 (Removal by Chemical & Mechanical Means)
	BB-08 (Removal by Application of Heat or Energy)
	BB-09 (Drying NOS) for drying work products
repackaging	see GG-03 (Packaging/Filling)
reverse roll coating/printing	see AA-03 (Knife/Spread/Roll Coating)
rinsing	see BB-02 (Aqueous Cleaning of Product or Parts)
roll coating	see AA-03 (Knife/Spread/Roll Coating)
rolling	see CC-06 (Forming by Mechanical Means NOS)
rotary screen printing	see AA-08 (Screen Printing)
sand blasting	*see codes listed above under "removal of mass from substrate"*
sanitizing (production equipment)	*see codes listed above under "cleaning of production equipment"*
saturation	see AA-21 (Infiltration/Saturation)
sawing	*see codes listed above under "removal of mass from substrate"*
semi-aqueous cleaning	see BB-01 (Solvent-Based Cleaning of Product or of work product parts)
scouring (textile products)	*see codes listed above under "cleaning of work product"*
screen printing	see AA-08 (Screen Printing)
shearing	*see codes listed above under "removal of mass from substrate"*
sintering	see CC-10 (Sintering/Powder Metallurgy)
soldering	see CC-08 (Soldering/Brazing)
solvent-based cleaning	see FF-01 (Solvent-Based Production Equipment of production equipment Cleaning)

solvent-based cleaning	see BB-01 (Solvent-Based Cleaning of Product or of work product Parts)
solvent drying	see BB-09 (Drying NOS), for the use solvents to dry a product or work piece
spray coating	see AA-02 (Spray Coating) (does not include electrostatic spray coating)
electrostatic spray coating	see AA-04 (Electrostatic Coating Methods) for
spread coating	see AA-03 (Knife/Spread/Roll Coating)
sputtering	see AA-19 (Deposition)
steam generation via combustion	see JJ-01 (Production of Electricity, Steam, Facility Heat)
straightening	see CC-06 (Forming by Mechanical Means NOS)
tempering	see CC-04 (Heat Treating NOS)
trimming	*see codes listed above under "removal of mass from substrate"*
tumbling	see as appropriate: AA-16 (Mechanical Plating), if tumbling is used to plate *codes listed above under "removal of mass from substrate,"* if tumbling is used to remove mass from a work product, such as tumbling to deburr CC-06 (Forming by Mechanical Means NOS), if tumbling is used to smooth a work product without removing mass turning *see codes listed above under "removal of mass from substrate"*
ultrasonic cleaning of parts	*see codes listed above under "cleaning of work product"*
use of biocides	see HH-02 (Treatment of Process Water: Use of in process water/cooling towers Biocides/Disinfection)
use of squeegees/wiper blades/rags	*see codes listed above under "cleaning of production equipment"*to clean production equipment
vacuum impregnation	see AA-22 (Impregnation/Implantation)

vacuum metallizing	see AA-19 (Deposition)
vapor degreasing	*see codes listed above under "cleaning of work product"*
water deionization	see HH-01 (Deionization, Demineralization)
water chlorination Biocides/Disinfection	see HH-02 (Treatment of Process Water: Use of
water softening	see HH-01 (Deionization, Demineralization)
welding	see CC-09 (Welding)

Appendix I

PRODUCTION UNITS

The Form S contains both facility-wide and process-specific information. Facilities report information on the quantity of chemical used and the amount generated as byproduct (waste) on a facility-wide level. Any progress in reducing byproduct through the implementation of toxics use reduction is measured and reported at the process (or "production unit") level.

A **production unit** is "a process, line, method, activity, or techniques, or a combination or series thereof, used to produce a product or a family of products."

A **product** means "a product, family of products, an intermediate product, a family of intermediate products, or a desired result or family of results."

A **result** is, for example, clean laundry after an industrial cleaning process.

A **family of products** is, for example, three different rubber compounds grouped together as one product.

Intermediate product is, for example: A chemical manufacturer produces methanol as an intermediate step in the production of formaldehyde. The methanol can be considered a product.

With these definitions TURA gives facilities flexibility in how they divide their facility into production units:

- A production unit can include all of the processes used to produce an individual item such as a particular shade of paint or a plated knife, or that produce a desired result such as cleaned out lines and mixing vats.

- Products can be grouped together into a family of products so that, for instance, all of the processes used to create several different shades of paint could be considered one production unit.

- An individual process step such as degreasing coupled with the result of that step (for example, a degreased piece of metal), can be considered a separate production unit.

- Separate process lines that make the same product can be considered as one production unit.

For guidance on factors that should be considered when establishing production units, please refer to MassDEP's "Guidelines for Classifying Production Units". This can be obtained on the MassDEP web site at http://www.mass.gov/dep/toxics/laws/policies.htm.

In addition to identifying production units, facilities must also establish a "unit of product." There are two basic explanations for a decline in the quantity of chemical generated as byproduct: There could have been a drop in production levels, or, through the implementation of TUR, less byproduct could have been generated per unit of product produced.

In order to distinguish byproduct reductions that occur through declines in production from those that occur because of the implementation of TUR, production level reporting is done on a "per unit of product" basis.

As with production units, facilities are free to select the unit of product. The key to choosing a unit of product is that the measure should be a reliable indicator of changes in production levels. The unit of product should be one that reliably increases or decreases as production goes up or down. The Guidelines for Classifying Production Units discusses considerations for selecting a unit of product.

In most cases, an acceptable choice will be a physical measure such as pounds of ammonia manufactured by the production unit or square yards of printed fabric.

✓Example

Example	Units of Product
No. of Products/year	No. of wood chairs
Square feet/year	square feet of anodized parts
Pounds/year	pounds of formaldehyde produced
Gallons/year	gallons of paint produced

Sometimes, however, it may not be possible to identify a physical measure that reliably reflects outputs. In such a case, a non-physical measure may be used as a way to quantify changes in production. Examples of this may include: hours of operation, labor hours, and dollar sales.

Non-physical measures can be affected by things that have nothing to do with changing levels of production. For instance, dollar sales will be influenced by changes in inflation, or perhaps, by product pricing. Labor hours might be less reliable if there has been a mid-year shift to automation, making output more efficient.

If you chose a non-physical unit of product, you must provide a written explanation as to why a physical measure cannot be used. You must also state how the non-physical measure has been adjusted to accurately reflect production levels rather than changes in costs, prices, inventory, productivity or other factors.

Appendix J

GLOSSARY OF TERMS

Alloy: a substance possessing metallic properties and composed of two or more elements of which at least one must be a metal. The term refers to those cases where there is an intentional addition to a metal for the purpose of improving certain properties.

Base Year: the benchmark year from which the facility will measure progress in reducing the byproducts and emissions attributable to the production unit. In each succeeding reporting year the byproducts and emissions attributable to the production unit will be compared to those in the base year, on a per unit of product basis.

Byproduct: all nonproduct outputs of toxic or hazardous substances generated by a production unit, prior to handling, transfer, treatment or release.

Byproduct Reduction Index (BRI): BRI = 100 x (A-B) / A

A = (Byproduct quantity in the base year) / (number of units of product produced in the base year)

B = (Byproduct quantity in the reporting year) / (number of units of product produced in the reporting year)

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act, commonly referred to as "Superfund."

Emissions Reduction Index(ERI): ERI 100 x (A-B) / A

A = (Emissions quantity in the base year) / (number of units of product produced in the base year)

B = (Emissions quantity in the reporting year) / (number of units of product produced in the reporting year)

EPCRA: Emergency Planning and Community Right to Know Act.

Facility: all buildings, equipment, structures, and other stationary items which are located on a single site or on contiguous or adjacent sites and which are owned or operated by the same person, or by any person who controls, is controlled by, or is under common control with such person.

Full-Time Employee Equivalent: An FTE is defined as 2,000 work hours per year. The 10 FTE criteria is met if a total of 20,000 hours were worked by all employees (including consultants) whether they worked full or part-time.

Note: repackaging the chemical is considered processing.

Included SIC Codes: This is one of the areas where TURA's requirements differ from those of EPCRA.

Under TURA, the SIC code criteria is met if any of your business activities are conducted in the areas represented by TURA's longer list of included SIC codes. The TURA list includes manufacturing plus business activities such as transportation, wholesale trade, and business or personal services.

EPCRA reporting is only required of firms that derive more than 50% of their business from **manufacturing** (SIC codes 20-39). For the descriptions of the SIC codes, see Appendix A.

Manufacture: to produce, prepare, import or compound a toxic or hazardous substance.

Note: Manufacture includes the "coincidental" manufacture of a substance during manufacturing, waste treatment or fuel combustion.

Otherwise Use: EPA has revised it's definition of OTHERWISE USE to mean 'any use of a toxic chemical, including a toxic chemical contained in a mixture or other trade name product or waste, that is not covered in the terms "manufacture" or "process." Othwerwise use of a toxic chemical does not include disposal, stabilization (without subsiquent distribution in commerce), or treatment for destruction unless:

A. The toxic chemical that was disposed, stabilized, or treated for destruction was received from off-site for the purposes of further waste management; or

B. The toxic chemical that was disposed, stabilized, or treated for destruction was manufactured as a result of waste management activities on materials received from off-site for the purposes of further waste management activities. Relabeling or redistributing of the toxic chemical where no repackaging of the toxic chemical occurs does not constitute otherwise use or processing the toxic chemical.

Process: the preparation of a toxic or hazardous substance, including, without limitation, a toxic substance contained in a mixture or trade name product, after its manufacture, for distribution in commerce:

- in the same form or physical state, or in a different form or physical state from that in which it was received by the toxics user preparing such substance; or
- as part of an article containing the toxic or hazardous substance.

Product: a product, a family of products, an intermediate product, family of intermediate products, or a desired result or a family of results. "Product" also means a byproduct that is used as a raw material without treatment.

Sanitized vs. Unsanitized Reports: If you make a Trade Secret claim, you must submit two versions of your report -- one that contains the Trade Secret information (**unsanitized**) and one that does not (**sanitized**). In Item g. in Section 1 of the Form S Cover Sheet, indicate whether the version of the report is sanitized or unsanitized.

Shipped in or as Product: the quantity of the chemical that leaves the facility as product.

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Mitt Romney, Governor

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Stephen R. Pritchard, Secretary

Department of Environmental Protection
Robert W. Golledge Jr., Commissioner